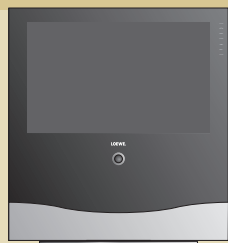


Operating Instructions.



- Spheros R37 Masterpiece
- Spheros R37Masterpiece/DR+

TV.



233-32173.020

LOEWE.


Dear Customer,

Congratulations on your purchase of this high quality Loewe television. Loewe stands for innovative design, excellent quality and exceptional functionality. To ensure that your product retains these properties for as long as possible, please follow the operating and safety instructions contained in this manual.

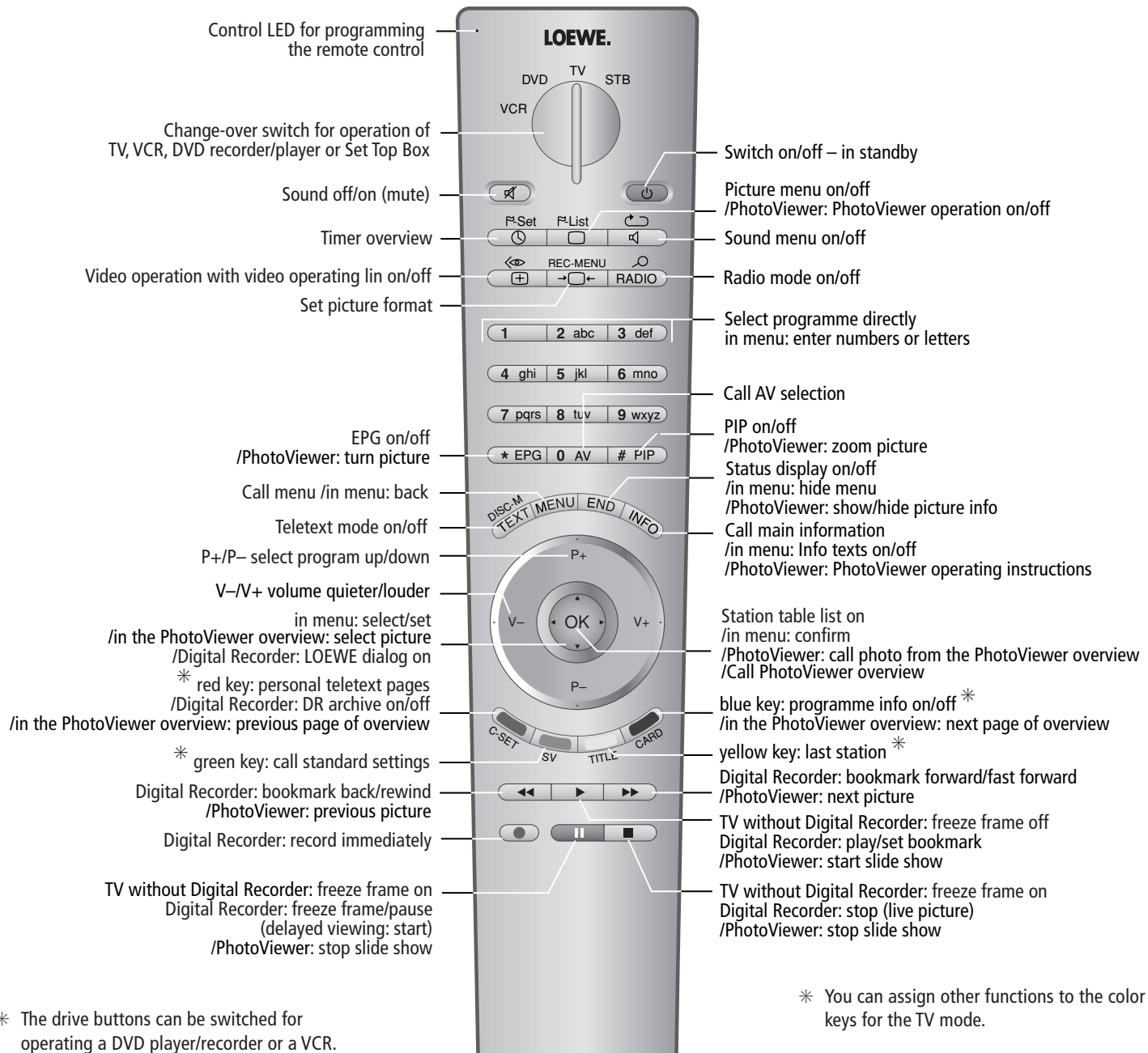
This instruction manual will help you to get started.

Your Loewe Team

Contents

Remote control RC3 – TV functions	3	Picture in Picture (PIP)	15	Displaying PC images (VGA/DVI)	31
Connections on the Signal Box	4-5	EPG mode	16-17	Connecting personal computers	31
Handling the mesh tube	4	TV-radio mode (SAT radio)	17	What to do when ...	32-33
Installation, Cleaning	6	Teletext mode	18	Technical data	34
For your safety ...	6-7	LOEWE Dialog	19	Available accessories	35
Connection, Power mains, Antenna,		Operation of additional equipment	20-30	Secret code	35
Connecting the equipment	7	Video mode	20	Service addresses	36
Operation on the signal box	8	Digital Link Plus	20	Codelist RC3	37-43
Initial installation	9	Logging in equipment	21	Functions marked by * are not available in all	
Remote control	9	Connecting VCR equipment	21	types of TV sets but can usually be retrofitted.	
Operation	9	Search for and store the VCR station	21	Ask your dealer if you are interested.	
Switching on	9	Video playback	22	Manufactured under license from Dolby	
Automatic programming	9	Calling an AV program in the		Laboratories. "Dolby" and the double-D symbol	
Daily handling	10-12	AV selection list	22		
Remote control RC3	10	IR-Link	22		
TV equipment	10	Digital input/output	23-24		
Use the drive buttons in TV- and STB position		AV-connection/Select device	24		
for VCR, DVD or Digital Recorder	10	Converting the remote control in order to			
Switching on/off	10	operate a Loewe DVD player or devices			
Changing channels	11	from other manufacturers	24		
Call Audio/Video programs -		Converting the remote control for devices from			
AV selection	11	the code list	24		
General menu operation	12	* Rotating the TV set (only Spheros)	26		
Adjusting the picture	12	* Viewing angle, range of rotation	26	are trademarks of Dolby Laboratories.	
Adjusting the sound	12	Connecting Loewe sound systems	27	dts	
Operation on the TV set (Signal Box)	12	Loewe sound systems Concertos	28	Is a registered trademark of Digital Theater	
Modes of operation	13-18	Loewe sound systems Certos/Concertos	29	Systems Inc.	
TV mode	13	Connecting the DVD Preceiver			
Menu functions in TV	14	Auro 8116 DT and Tremo	30		
				Acoustimass® is a registered trademark of the	
				Bose Corporation.	

Remote control RC 3 – TV functions



* The drive buttons can be switched for operating a DVD player/recorder or a VCR.

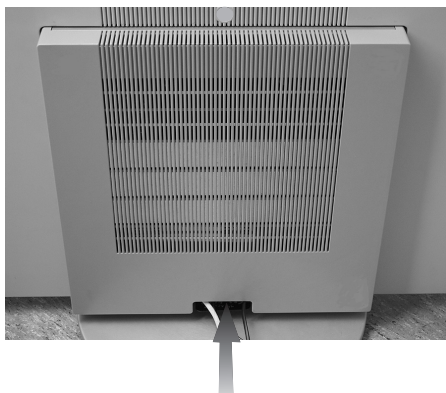
* You can assign other functions to the color keys for the TV mode.

Connections on the signal box

Connecting the cables

To connect the antenna cable or cables from other electronic components, lift up the signal box on the back of the TV.

fig. 1



1. Hold the signal box at the bottom center and pull it up (see fig. 1 arrow).

fig. 2



2. Connect the antenna(e) and any existing cables of other electronic components.

3. If all cables are connected, fix the metal bracket with the two knurled nuts (see fig. 3/4).

fig. 3

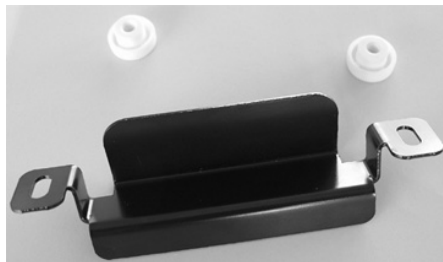
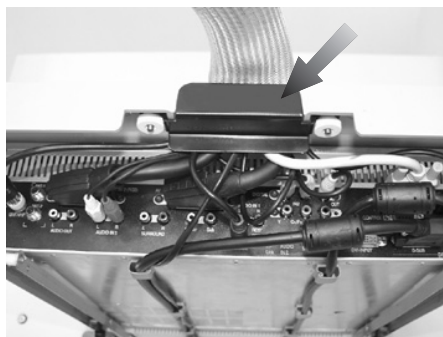


fig. 4

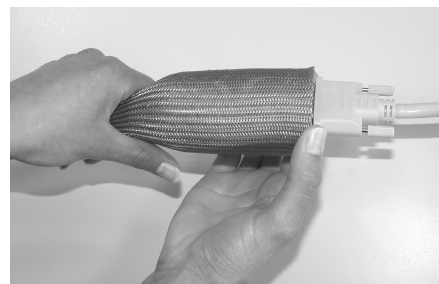


4. Lower the signal box back into the rear of the TV set by holding the box by the metal bracket (see fig. arrow), this avoids trapping your fingers.

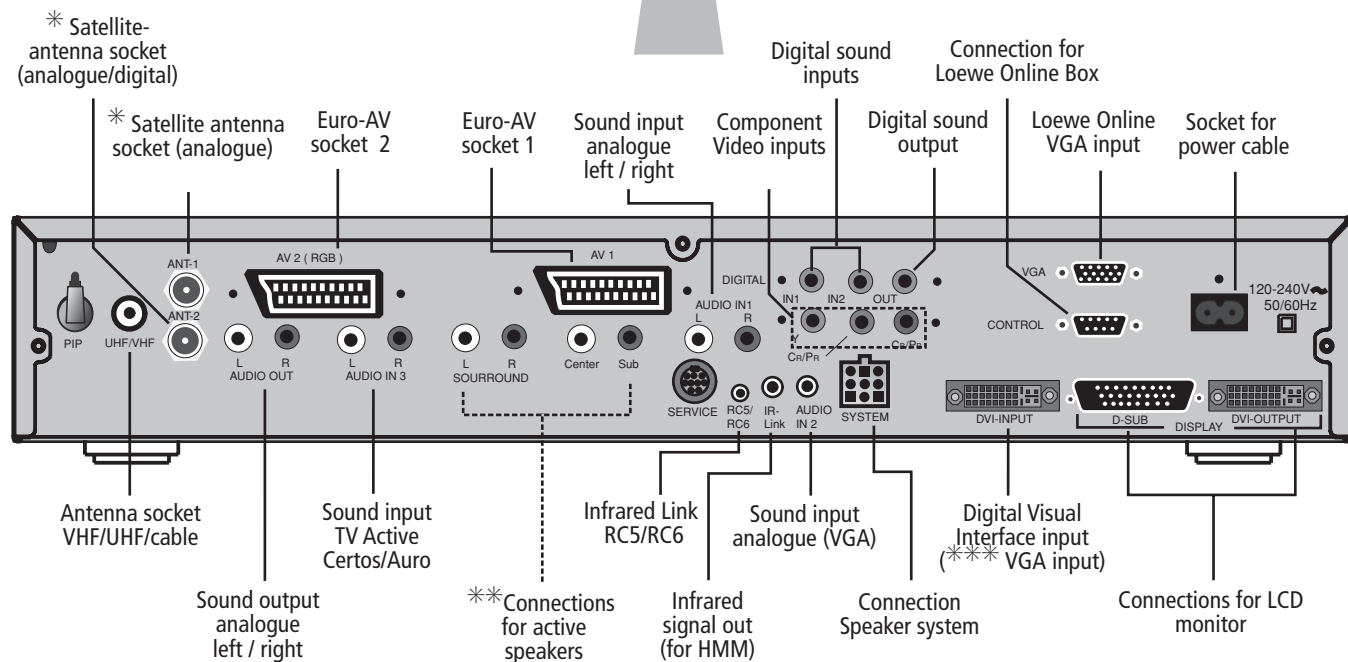
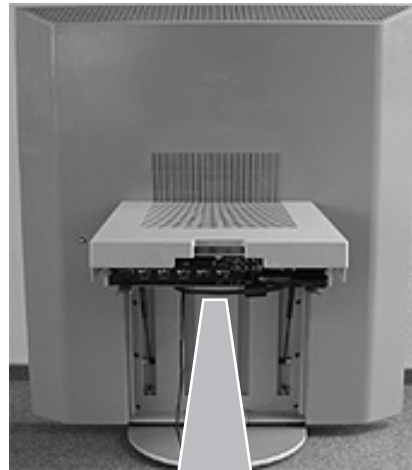
Handling the mesh tube

Use the enclosed mesh tube to lay the screen, base, wall holder or rack cables tidily and guide the hose with the cables to the Signal box. This looks more elegant.

The diameter of the mesh tube widens when it is pushed together lengthwise (see figure). This makes it easier to push through the cables with plugs.



Connections on the signal box



* Only in the set version with "Digital-TV upgrade kit 2 Sat/Twin-Sat CI".

※※ The "SURROUND", "Center" and "Sub" sockets are only activated when equipped with Dolby Digital (AC3).

*** VGA Connection via VGA/DVI adapter cable.

Note: For optimum picture resolution use the "Digital Visual Interface Input DVI" only connecting cables less than 2 meters long.

Installation, Cleaning, For your safety ...

Transporting

Only transport the TV set in an upright position. Hold the set at the top and bottom of the housing and not by the screen.

The front panel and the LCD screen underneath it are made of glass and may break if not properly handled. If the LCD screen is damaged (not the glass panel) and in case of leaking liquid crystal, wear rubber gloves to carry the device.

In case of contact with the skin, wash the affected areas thoroughly with water.

Installation

- Position the set with room for ventilation. The air vents may not be covered by objects such as magazines, table cloths, curtains etc.
- Position the set so that it is not exposed to direct sunlight and additional heating from radiators.
- Observe the swivel range when installing a set with rotary motor unit and do not place any objects such as flower vases in this area.
- Make sure no bright light or sunlight falls onto the screen otherwise reflections will be caused and the brilliance of the picture lost.

Cleaning

Use only a soft, damp cloth to clean the TV and the remote control. Do not use any caustic or abrasive cleaning agents.

For your safety ...

For your own safety and to avoid unnecessary damage to your equipment, protect it against

- moisture, splashing and dripping water

- shock and mechanical stress
- cold, heat and extreme temperature fluctuations
- dust
- covering which obstructs air circulation
- tampering with the insides
- Never place vases filled with water, lit candles etc. on the TV set.
- Do not place naked flames, e.g. lit candles, on or near to the set.
- Avoid metal parts, needles, paper clips, liquids, wax or similar getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the set switch it off immediately at the on/off switch, pull out the power plug and notify the after-sales service for inspection.

If you have moved the set out of the cold into a warm environment, leave it switched off for about an hour because of the possible forming of condensation.

Lightning can damage your TV through the antenna and the mains. Therefore pull out the antenna and power plugs during thunderstorms and in longer periods of absence.

- The TV power plug must be easily accessible so that the TV can be disconnected from the power supply at all times.
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A power cable with damaged insulation can lead to electric shocks and is a fire risk.
- When removing the power plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.
- Your new TV has been built exclusively for use in a home environment. The warranty covers this normal use of the device.
- Never let children handle the TV unattended or play in the immediate vicinity of it. The TV could be knocked over causing injury.
- Never remove the back of the TV set yourself. The set operates with high voltages which could be fatal.

For your safety ...

- Repairs should only be carried out by Loewe Service or authorized TV technicians.

Note

- The screen you have purchased meets the highest quality requirements in this sector and has been tested for pixel errors. Despite the utmost caution in production of the display, it cannot be totally ruled out that some of the pixels might be defective for technological reasons.
Please understand that such effects cannot be considered as a unit defect in the sense of the warranty as long as they are within the limits specified by the standard.

- The TV's rating plate is on the back behind the signal box.**

Note the voltage specifications with which the TV may be operated.

Connection

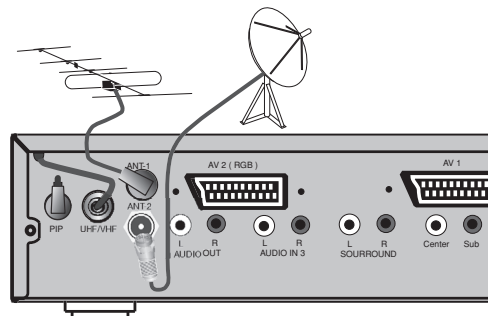
Power mains

Connect both power cables to 230V/50–60 Hertz sockets.

Antenna

Connect your antenna or cable system to the UHF/VHF antenna socket on the back of the Signal Box.

- In sets with the "Digital-TV Upgrade Kit 2 Sat/Twin-Sat CI- or CIP" connect the Sat antenna cable to the "ANT-1" and "ANT-2" sockets, in this way you can receive two satellite programs simultaneously, e.g. for PIP display.
- In sets with "Digital-TV Upgrade Kit 2-T/S" connect the antennae to the Signal Box as shown below.



- For the version with "Digital-TV Upgrade Kit 2 T-CI" connect a room antenna or roof antenna to the "ANT-1" socket to receive digital terrestrial programs.

Connecting the equipment

Auxiliary devices such as VCRs, DVD players, Pay-TV decoders, Loewe sound systems Concertos/Certos can be connected to the Spheros Signal Box.

Operation on the signal box

Important!

If the TV is equipped with the "Digital Recorder Plus", switch the TV off first before you fold out or fold in the signal box.

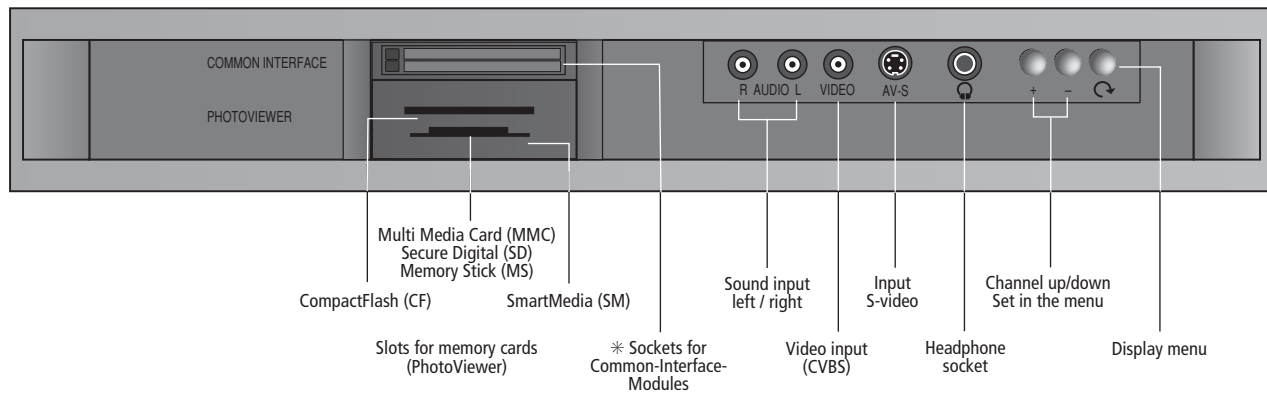
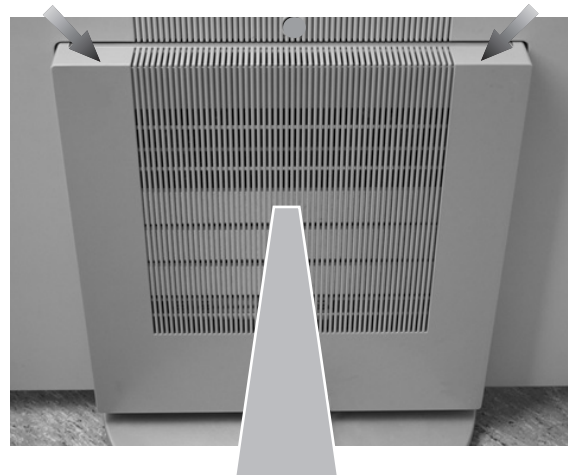
This prevents damage to the hard disk by vibrations.

You can gain access to the control panel of the signal box by holding it at the top right and left and pulling it back slightly (see the arrows in the figure).

You can connect headphones or a camcorder to the signal box.

Depending on the type of set, the slots for the memory cards (PhotoViewer) or "Common Interface Module" for Pay TV are accessible.

Fold the signal box back in if you do not need the control panel. To do this, press slightly against the box.



* Only in the set version with "Digital-TV upgrade kit 2 Sat/Twin-Sat CI".

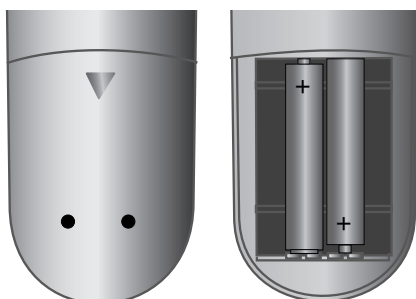
** Only in the set version with "Digital PhotoViewer".

Initial installation

Remote control

Batteries

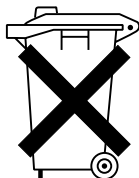
To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-).



Then push the cover back on.

Note on disposal of batteries:

The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.




Switching on

Press the On/Off button  on the back of the TV so that it locks in.

Switch on/off



The set is then connected to the mains. The red pilot lamp on the front of the set is alight.

You then switch to operation either with the blue On/Off button  or with one of the numeric buttons 0-9 on the remote control, the green operating LED then lights up.

Note

Due to the LCD technology it takes about 1 minute to reach full brightness.

Operation

We have designed the TV set in such a way that it is easy to operate with menus. If you need information on operating the set, simply press the **i** key on the remote control to display the help texts, which will quickly enable you to understand the system.

If it is a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason, why this operating manual only explains the most important operating steps.

Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, saves and sorts all programs which are freely receivable on your antenna system.

You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.



Select the settings with the arrows on the ring ...



... confirm the settings with **OK**. You then move on to the next menu ...



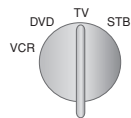
... press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (**i** button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

Daily handling

Remote control RC3

Remote control for operating different Loewe units.



Operating the TV:
Set the rotary switch to "TV".

Ex-factory settings are: Loewe video recorder, Loewe DVD recorder and for STB (Set Top Box) the d-box common in Germany. The remote control must be switched for operating a Loewe DVD player.

TV equipment

Functions marked by * are not available in all types of TV sets but can usually be retrofitted. Ask your dealer if you are interested. Menu contents may differ from the ones shown depending on your TV equipment. Operation of the "PhotoViewer functions" or the "Digital Recorder", if available, are described in a separate operating manual.



You can show your TV equipment by pressing the **INFO** button on the remote control.



Select the "Equipment" line in the "Main information" menu.

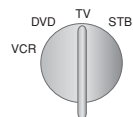


Press the **OK** button.



Hide the menu again with the **END** button.

Use the drive buttons in TV- and STB position for VCR, DVD or Digital Recorder
You can switch over the six drive buttons both for TV and STB for operating a VCR or DVD player/recorder. Operation of the built-in Digital Recorder Plus is specified ex-factory.



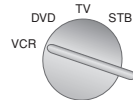
First turn the switch to the main function TV or STB.



Press the **END** and *** EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.



Enter the numbers 988 one after the other. The display again flashes twice.



Now turn the switch to the required function for the drive buttons. DVD, VCR or TV if the Digital Recorder is to be used.



Press the **# PIP** button to complete the setting. The display flashes twice.

The setting is saved.

Switching on/off

Your TV set is equipped with an economy standby power supply unit. On standby the power consumption drops to low power. If you want to save even more electricity, switch the set off at the On/Off switch (Signal Box). But remember that EPG data will then be lost and timed recordings will not be made.



When the TV is switched on, you can switch it to standby with the blue on/off button. The red standby indicator on the set lights up. If the green indicator is also alight a timer recording on the VCR is in progress, EPG data input is taking place or radio mode without on-screen display is active.



From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0-9). The green (blue) operating LED then lights up.



When you switch on the TV with **OK**, you see the station table and can choose a station.

None of the indicators lights up when you switch off the TV set with the On/Off button on the set.

Switch on the TV set with the On/Off button on the set when it is switched off.

Daily handling

Changing channels



Channels up/down (only favorite stations if these are shown in the station table).

With the numeric keys on the remote control
The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

1-digit stations

7 pqrs

Keep the button 0 - 9 pressed for one second, the channel then changes immediately.
or press the button 0 - 9 briefly, the channel then changes after 2 seconds (immediately when up to 9 stations are stored).

2-digit stations

2 abc

7 pqrs

Keep the second numeric key pressed for one second, the channel then changes immediately.
or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

3-digit stations

1

2 abc

7 pqrs

Keep the third numeric key pressed for one second, the channel then changes immediately.
or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

4-digit stations

1 2 abc
7 pqrs 8 tuv

Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

Call Audio/Video programs - AV selection

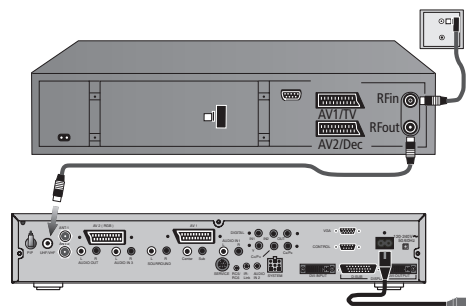
0 AV

for playing AV equipment.

AV Selection VIDEO AV1 AV2 AVS VGA/XGA DVI COMP.IN



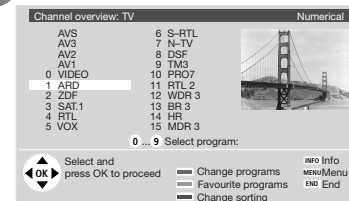
AV connection (e.g. AV1 socket) or ...
Select **VIDEO** for VCR transmitters if the VCR is only connected to the "VHF/UHF" antenna socket on the Signal box. See Fig.



With the station table



Call the station table with **OK**



Mark the station (the marked station is shown in the PIP pictures)

or ...

0 AV

:

9 wxyz

mark with numeric keys



Call the marked station



Sort alphabetically/numerically (blue button)



Show favorites only (yellow button), selectable in the "TV Menu-Programs".

Daily handling

General menu operation

Not all functions can be selected directly with buttons on the remote control.

To keep the number of buttons on the remote control to a minimum, operating menus are offered for several operating functions.

Which buttons you use to operate these is shown in the respective menu.

Setting the picture

With the remote control RC2/RC3:

Call the TV menu, press the MENU button.

Mark (white field)

Call the menu with OK or

Grey menu items cannot be selected

Set (setting value and bar)

Mark other menu items

Set/select

Show/hide info texts on/off

INFO

TV menu

Rotate TV
Standard settings
Picture
Sound
zap2text
Connections
Settings

Picture

Contrast
Picture adjustment
Colour 32
Brightness
Picture vert.
Sharpness
other ...

INFO Info
MENU Back
END End

Picture

other ...
Picture format
DNC
DMI Plus
AMD

i DNC (Digital Noise Control)
With DNC you can eliminate or reduce picture interference, e.g. due to poor reception.

Other picture settings are: Contrast, Picture adaptation, Colour, Brightness, Vertical hold (not for 16:9 or 4:3), Focus, Tint (only for NTSC), Picture format, Noise reduction (DNC), Movement compensation (DMI) and automatic picture size adaptation (AMD).

MENU Back to the previous menu level

END Hide all menus

Adjusting the sound

Adjusting the volume

Adjust the volume

other ...

Volume 36

with "others ..." you can select and ...

Listening mode Stereo Panorama Dolby Virtual

Loudness

Sound adjust

Volume

... set other sound settings.

Mute

Sound off; Sound on: press button again or adjust volume. The status is displayed briefly on screen.

Other sound settings with the remote control RC3:

Call "TV menu-Sound", press the button

with the remote control RC2:

Call the TV menu, press the MENU button.

TV menu

Rotate TV
Standard settings
Picture
Sound
zap2text
Connections
Settings

Picture

Contrast
Picture adjustment
Colour 32
Brightness
Picture vert.
Sharpness
other ...

Select line "Sound".

confirm

Select sound function

set/ select and ...

accept with OK

Other sound settings: Sound via the loudspeakers of the TV set or another system. Listening mode Stereo/Panorama/Dolby Virtual. Sound adaptation, treble, bass and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

Operation on the TV set

(on Signal Box)

Changing channels on the TV set

Channel up

Channel down

Volume, contrast and color

Press the function button until the desired function is marked

More volume, contrast or color

Less volume, contrast or color





Modes of operation

TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext, PIP, Video or Radio is selected. Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

Function of the color buttons in TV mode

You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

-  red: personal teletext page (with DR+: call DR archive)
-  green: call picture format setting (with DR+: call timer overview)
-  yellow: call last viewed station
-  blue: call station info


You can assign other functions to the buttons in the TV menu "Settings" - "Function keys".

Status display

 Show/hide status

Clock	20:15
1 ARD	Stereo

Main information

 Call main information

Main information


- Autom. channel search
- Connections
- Explanation of the remote control
- Index
- Technical spec. of TV set
- Select control level

◀ OK Select and call up with OK INFO Info MENU Back END End

The **explanation of the remote control** shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index. Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "**Technical spec. of the TV set**". When you have made all the settings and connections, you can switch over to "**Simplified control**" (not in digital TV) using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

TV menu

 Launch the TV menu

TV menu

- Rotate TV
- Standard settings
- Picture
- Sound
- zap2text
- Connections
- Settings

Standard values

You can save the setting for picture and sound you have made in this menu and launch them again later.

Connections

You will find information about this in the chapter "Logging in and connecting AV equipment" on page 21/23.

zap2text

Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You

call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

Child lock

Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

On-screen displays

You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

Timer functions

You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

Time and date

When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost (Not all stations transmit the full date, you may have to add missing data manually).

Language


If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand:

Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button. Now select the right language and confirm with **OK**.


Modes of operation

Menu functions in TV


EPG

Call the electronic program guide of the TV set.
EPG can be called and hidden with the  button.


PIP

Call/hide the picture in picture function of the TV set. PIP can be called and hidden with the  button.


TV radio (SAT radio)

Switch the radio mode of the TV set on/off with  button. Prerequisite: Your TV is equipped with a satellite tuner (see on page 17).


Video

Call or hide the video control bar.
Press the button  .


Format

Call the selection for setting the picture format.
Select the picture format by repeated pressing of the  button.


AV input

Call the AV selection for playing connected equipment (e.g. VCR, camcorder or DVD player).
The AV selection can be made with the  button.


Picture

Show/hide the picture menu. Press the button  . You can set the TV picture with the help of the picture menu. The Picture menu can also be called by the TV menu ' Picture.

Sound

Show/hide the Sound menu. You can set the TV sound with the Sound menu. The Sound menu can be opened under the "TV menu – Sound".
On the **RC3** remote control also directly with the  button.

Sound mode

Call the sound mode settings of the connected Loewe DVD-Preceiver "Auro".
Press the button  .

Timer

Call the timer overview of the TV set.
Press the button  .

Digital PhotoViewer

With the Digital-PhotoViewer integrated in the Signal Box you can show pictures taken with digital cameras from the most common memory cards (see fig. page 8) on the screen.
After inserting the memory card the set switches to PhotoViewer mode and you first see an overview of the pictures stored on the card. The set switches back to TV mode when the card is pulled out.
You will find a detailed description in the "Digital PhotoViewer" operating manual enclosed.

Digital Recorder Plus (DR+)

If a hard disk is integrated in the Signal Box (set variant), you can record and play TV programs. Depending on the selected recording quality the possible recording capacity is between about 20 and 100 hours.
The possibilities of the Digital Recorder are much more versatile than those of a video recorder. Use the separate "Digital Recorder Plus" operating manual for operation.

Modes of operation

Picture in Picture (PIP)

PIP can be displayed as Standard PIP, iPIP or Split Screen by default.

Standard PIP functions:

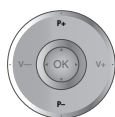
The Standard PIP displays a PIP image in the presently displayed TV image.

PIP Show/hide PIP picture

The status of the PIP mode i.e. PIP channel selection or PIP scan is shown in the status display in a colored square before the channel name and appears while changing the channel or on pressing the **END** key.



If the PIP status is green, you can select the PIP channel:



Channel up/down or direct

PIP image as static image



The PIP status must be green. If it is not, press the green button.



Then press the red button; the PIP image becomes a static image. Press the red button again for a moving image.

Changing the channel of the TV image



Press the key **END**.
The PIP status must be white.
If it is not, press the green button.
Then select the station as normal.



PIP channel scan



The PIP status must be green.
If it is not, press the green button.



Start the PIP scan with the blue button. The PIP status turns blue.

The PIP channel now changes automatically. Stop the station scan with the blue button. The PIP status turns green again.

Interchanging PIP image/TV image



The PIP status must be green.
If it is not, press the green button.



Interchange the pictures with the yellow button.

Position of the PIP image



The PIP status must be green.
Call the PIP menu with the **MENU** button.



Mark "**Position**".



Select a symbol for the



Hide PIP menu

Size of the PIP image



Mark "**Size**" in the PIP menu.



Select "**Large**" or "**Small**".

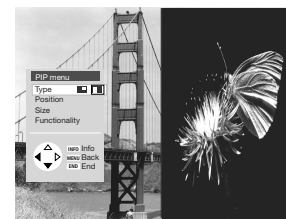
Split Screen



Mark "**Type**" in the PIP menu.



Select the symbol for Split Screen.

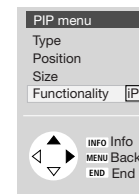


Hide PIP menu

The image on the right pertains to the PIP image and has no sound. TV image and PIP image are separated from each other by a colored line (PIP status).

Adjusting "iPIP"

Switch on the PIP menu with the **MENU** button.



Mark the "**Functionality**" bar.

Select "**iPIP**".

Hide the menu with the **END** key.

iPIP function:

In iPIP the presently displayed TV image becomes the PIP image. For the TV image, select another channel and retain the PIP image. In iPIP, the PIP status is orange-colored.



Show/hide PIP picture

Also read the info text; press the **INFO** key. The PIP image changes back into TV image, when you switch off PIP.

Modes of operation

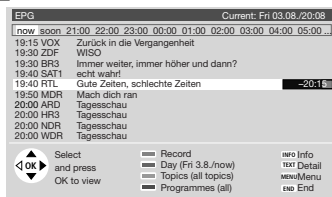
EPG mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings.

A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see page 17).

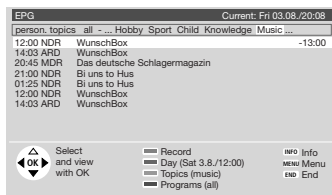
Using the EPG

★ EPG Switch EPG on/off



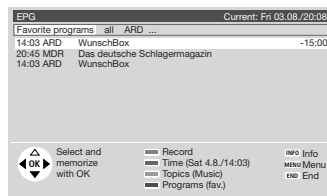
The first line is framed initially in green.

The green frame stands for time and date, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The yellow frame means you can select topics. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News,

Show, Music etc. The list of stations below is updated accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The blue frame signifies station selection. Use the arrow buttons ◀ ▶ to choose between your favourite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶, marking a station in the list and storing it with **OK**.

The respective current settings are shown next to the operating notes for the color buttons.

Direct input of time

You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

Viewing or noting a program

You can watch or note the program selected with the ▼ ▲ buttons by pressing the **OK** button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched to or you see a message.

Programming recording with VCR

You prepare the station marked with the buttons ▼ ▲ by pressing the red button. Under "Timer Recording" you select VCR and whether you want to record one program or a serial. A red dot is set in front of the title of the program. If a program is already marked by a red dot, you can

delete the timer data again with the red button (the red dot disappears).

Calling detailed information

If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

Other functions in the EPG menu:

Call the EPG menu with the **MENU** key.

List of memorized programs

You will find the stations you have memorized in a list.

Switch on TV at mark

You can have the TV set switch on automatically from standby mode at the time of a marked program. If you are not in at this time, a security prompt makes sure that the TV switches off again after 5 minutes.

Indicate/start memorized station

If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

Short info lines

Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

EPG entry

If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

Modes of operation

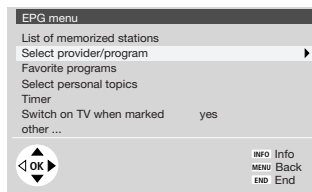
EPG settings

If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

Provider search

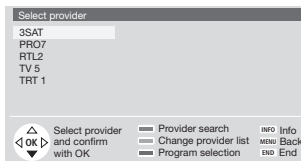
 EPG on/off


 Call EPG menu





 Mark "Select provider/program"

 Call



 Start provider search (green button). This may take some time.

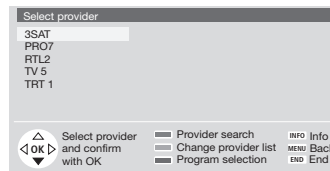
 Mark the provider

 Save the provider


This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button. If the stations offered are what you want, move on to the station selection with the blue button.


Selecting stations for EPG


Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).

 Mark the station/Remove the marking


 red: Only mark favorite stations


 green: Mark all stations

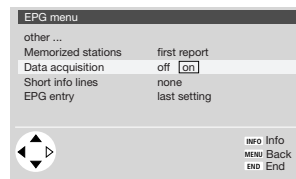
 yellow: Only mark this station

 Back to the EPG menu

Switching data acquisition on/off

 Mark "Data acquisition" in the EPG menu under "other"

 Select data acquisition off/on



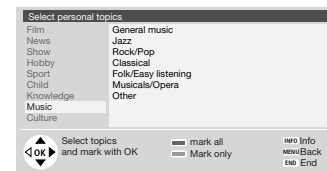
If, for example, you cannot receive any EPG providers and no DVB is installed in the TV set, you should switch off the data acquisition.

Performing data acquisition

The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green (blue) LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

Defining personal topics

You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



TV-Radio mode

Switch the TV-radio mode on or off by pressing the **RADIO** button.

If a satellite tuner and a DVB module are installed in your TV, radio stations are available. If these accessory modules are not installed, you can select only the audio inputs (connections AV1 to AVS, DIG IN 1, DIG IN 2) with the program table or with the keys **▼ ▲** and play an external audio signal through these.

Modes of operation

Teletext mode

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.

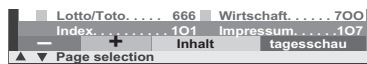
 Teletext on/off





Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.


Selecting pages with the colored buttons


The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.




 red: back to previously viewed page (not with FLOF)

 green: forward to next page (not with FLOF)

 yellow: to the next topic (only in TOP and FLOF)

 blue: to the next topic (only in TOP and FLOF)

Page selection with the numeric buttons

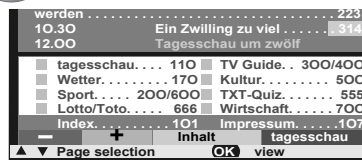
 Enter the page number directly

18

More functions for page selection



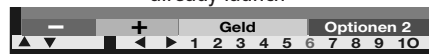
Mark a specified page number on the page (Page Catching)



Launch



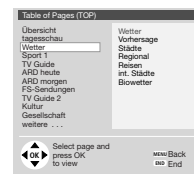
Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch



Launch contents page 100



The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.



Launch the TOP table



Mark a general topic



Select the Topics column



Mark menu items



Display page

Displaying teletext pages

 0 AV

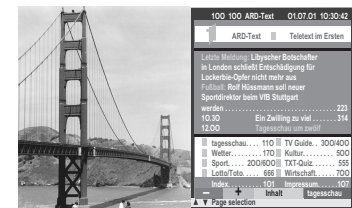
Stop self-turning pages (HOLD)

 9 wxyz



zoom: top half - bottom half - normal size

 # PIP

TV picture on/off (Split text)



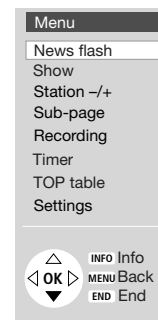
Program timer recordings

If the remote control is set to "TV" (no equipment combination), call the program pages of the current station with the Record button  in teletext mode. Select the station you want to record with  and confirm with the **OK** button. Select VCR for "Timer data". Confirm with **OK**.

Teletext menu

 MENU

Launch teletext menu



Here you will find functions such as "News flash", "Show" hidden information, switch to other channels (if another tuner is available), enter 4-digit sub-page number directly and programme video timer recordings via teletext.

In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

LOEWE Dialog

(only activated in connection with the Digital Recorder Plus)

In connection with the Digital Recorder Plus the LOEWE dialog page offers an overview and quick access to information content of the TV, e.g. the programs currently showing, programs last recorded etc.

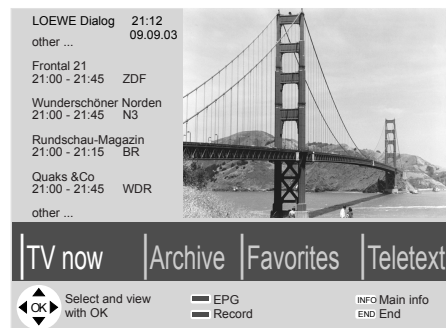
You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

You should have made the EPG settings described on page 16 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection. No LOEWE dialog is displayed with NTSC reception.

You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.



Press one of the arrow buttons \blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright for about 1 second.



The TV program just selected is shown in reduced size (the live picture).

The blue bar shows you the selectable functions. The function on the left is active. You can move the function to the active position with the arrow keys \blacktriangleleft \blacktriangleright .

Above the selected function you see a selection which you can navigate with the arrow buttons \blacktriangle \blacktriangledown and view with **OK**.

With TV now - The selection of programs currently running acquired by the EPG system is displayed in TV now. If no EPG is received, a programme info of the station currently being received is displayed.

With Archive - the selection of recorded programs in the DR archive is displayed.

With Radio - the selection of programs of the satellite radio is displayed. If you have switched over to Sat radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), Favorites is displayed in place of Radio, that is favorite programs you have defined.

With Teletext - the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function

Mark the desired station with the arrow buttons \blacktriangle \blacktriangledown , the name turns blue. Other stations can be displayed with "others..."

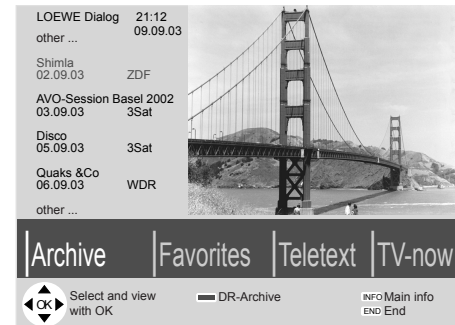
Press the **OK** button to watch the station. You can call LOEWE Dialog with the \blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright buttons so that the desired function is ready for selection on the left.



Call TV now



Call Archive \blacktriangleright



Call Teletext \blacktriangleleft



Call Favorites \blacktriangleright



Operation of additional equipment

Video mode

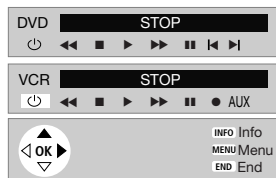
You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link for timer recordings of satellite programs controlled by the TV set.

You can display up to two menu bars, these are displayed when the appropriate video units are logged in the "Connections" > "Connections: Connection plan" menu.



Show/hide video menu bar



Select video menu bar, if for example several VCRs or a DVD player and a VCR are connected.



Select function



Switch VCR/DVD on/off



Select video input (Euro-AV socket) for the VCR



Rewind (only for VCR) or Scan in rewind



Stop (STOP)



Playback (PLAY)



Fast forward (only for VCR) or Scan in fast forward



Pause (PAUSE)



Next chapter (only for DVD)



Previous chapter (only for DVD)



Record



Perform selected function.

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.

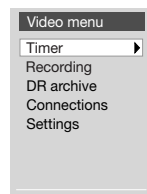
Exceptions:

1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

Video menu



Show the Video menu



A line is displayed in the menu if a Link Plus Recorder is connected.

The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

Digital Link Plus VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV. Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control. Operation with the control bar also works with Digital Link.

Digital Link must be switched on on the video recorder.

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

Operation of additional equipment

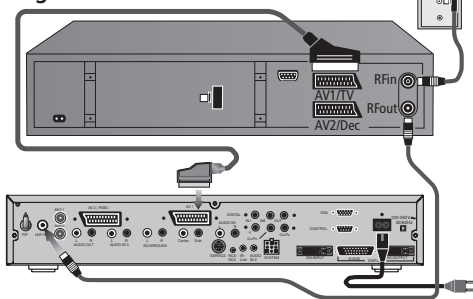
Logging in equipment

You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu - "Connections".

Connecting VCR equipment

In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the VCR to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.

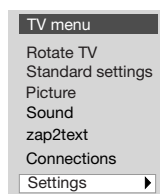
signal box



video recorder

Search for and store the VCR station (if there is no Euro AV cable)

Switch on the test station on the VCR or insert a recorded tape and start playback. Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list. To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the plug attached to the cable to the antenna system).



MENU

Call the TV menu



Mark "Settings"



Call



Mark "Stations"



Call



Mark "Manual setting"



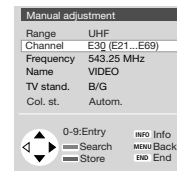
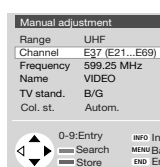
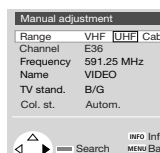
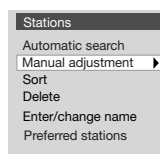
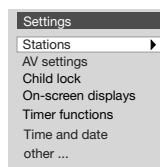
Call



Mark "Range" and Select "UHF"



Mark "Channel"



Enter channel 30
Search for channel (blue button)

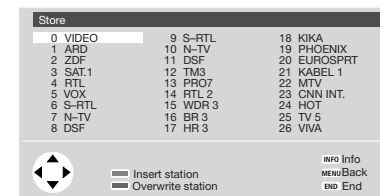
When the station is found:



Store (red button)

If you want to change the program, e.g. to "Video", select the "Name" line. Enter the new program name.

A list of the stored stations is displayed



Overwrite program (program 0 marked) pressing the **red** key



Hide menus

Plug the antenna plug back into the VCR. If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

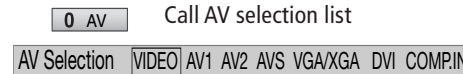
Operation of additional equipment

Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player or camcorder on your TV:

1. Use the Euro-AV sockets on the signal box and VCR. This is the best way to get a good picture and sound quality. For camcorders it is best to use the front sockets AVS. If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot. If you are playing back from a standard VCR, DVD player or camcorder, select the AV socket to which the video signal is connected in the AV selection list or the station table.
2. Video recorders emit a switching voltage during playback which the TV set can decode (can be activated for every VCR in the connection wizard or set Settings - AV Settings - Allow switching voltage to "Yes" in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.
3. You can also control logged in Loewe VCRs and DVD players with the video menu bar. See page 11/20 for more details.
3. Use the antenna connection between the VCR and the signal box. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling an AV program in the AV selection list



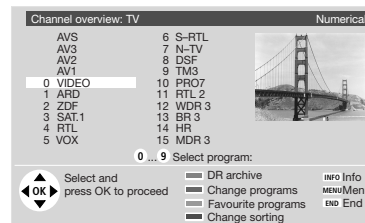
Select AV connection (e.g. socket AV1) or VIDEO for the VCR station.

Now you will see the playback from the connected AV unit.

Calling an AV in the station table



Call the station table



In the numeric sorting you will always find the AV devices at the top of the list without station numbers.



Select the AV connection and...



confirm with **OK**.

Now you will see the playback from the connected AV unit.

IR-Link

Your TV set is equipped with the IR-Link socket (IR-Link), a cable with plug and the IR transmitter diode are included with the set. This allows you to operate a concealed d-box or a VCR from another manufacturer with its remote control through the TV set with most remote controls. Plug the jack plug of the cable with infrared transmitting diode into the IR-Link socket on the back of the signal box. The infrared transmitting diode at the end of this cable must be placed in front of the concealed device. The TV must be switched on for transmission.

A napped strip is provided to help to lay the cable. The strip is self-adhesive; pull off the backing foil first. Stick the strip to the shelf or cabinet and press the cable into the naps. You can cut up the strip into several sections with a knife.

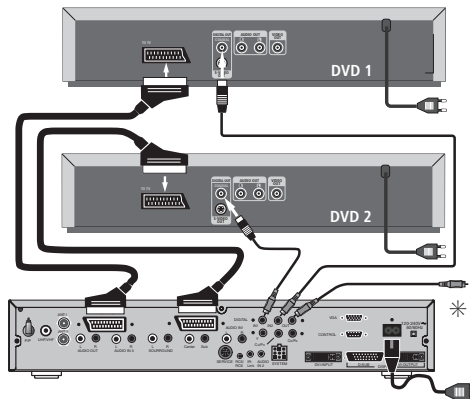
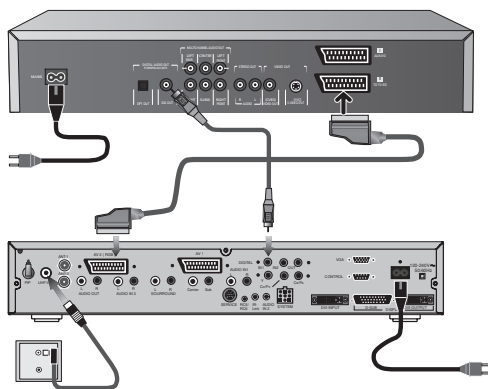
Point the infrared remote control at the TV to operate the concealed VCR.

Operating additional equipment

Digital input/output

Have you logged in your video equipment, e.g. DVD players or VCRs in the "TV menu-Connections" as described on page 21?

For analog picture and sound signals from the VCR or DVD player, use a Euro-AV cable to connect the Euro-AV socket 1 or 2 to the Signal Box and the corresponding AV socket of the VCR.



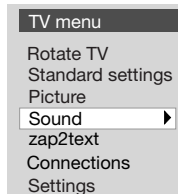
* to Concertos or digital receiver or Certos.

Assigning digital inputs

Switch on the "Radio Mode". The digital inputs "DIGITAL IN 1" or "DIGITAL IN 2" can be selected directly.

MENU

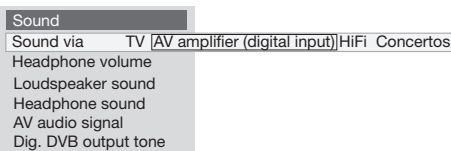
1. Call up the TV menu by pressing the **MENU** key.



2. Select the "Sound" line, then press the **OK** key.



3. "Sound via" select the "AV amplifier (digital input)" or "Concertos", if Concertos has been connected.



Press the **OK** key

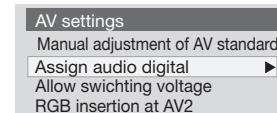
MENU

4. Press the **MENU** key.



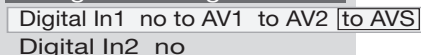
5. Select the bar "Settings" and confirm with **OK**.

6. Select the item "AV settings", then confirm with **OK**.



7. Select the "Assigning Audio digital" line and press **OK** to confirm.

Assign audio digital



8. Select "Digital IN 1 - to AV3" for example for socket AV3 if a DVD player or CD player with coaxial-digital output is connected to digital input 1 and this device is logged in in the "Connections" menu.

If the video signal from a play console is connected to the AVS socket, the relevant device is logged in and the digital sound is present at the digital input 2, then select "Digital IN 2 - to AVS" etc.

END

9. You can complete the settings by pressing the **END**

The Signal Box also has 2 coaxial digital audio inputs "DIGITAL IN".

For optimum sound transmission connect the output socket of the DVD player (DIG OUT) to the "DIGITAL IN 1 or IN 2" socket on the Signal Box with a cinch cable.

The Signal Box has an electronic switch so that it is possible to assign a digital audio input to every AV input.

For example, if you switch a DVD player connected to "Euro-AV 1" to Play, the respective assigned audio input "DIG IN" is selected automatically.

In this way, you can connect two DVD players, for example, without the need for tiresome replugging.

Note

The TV set without Dolby Digital Module can only play PCM-Stereo sound.

Operating additional equipment

Audio output "DIGITAL OUT"

The digital audio signal is applied at the "DIGITAL OUT" socket of the Signal Box. Here, for example, you can connect an external Dolby Digital Decoder or the Loewe sound system "Certos/Concertos".

An analog audio signal from the TV set or a VCR or another sound source which is received at one of the Euro-AV sockets of the Signal Box is converted into a digital signal (PCM) and output at the "DIGITAL OUT" socket.

The digital signal from the DVD player is output unchanged at this socket.

The digital TV sound or the sound of a DVD/CD player is only audible through a Digital Receiver or the Concertos or Certos system.

AV-connection/Select device

0 AV

Press the key 0 on the remote control a little longer; the AV selection bar is displayed again.

AV Selection VIDEO AV1 AV2 AVS VGA/XGA DVI COMP.IN



Select the AV connection to which the sound source, such as the DVD player, is connected.

Converting the remote control in order to operate a Loewe DVD player or devices from other manufacturers

You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC3.

Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the equipment.

If you cannot find the equipment in the code list, try a suggestion from the remote control.

Even if the manufacturer of the equipment is included in the code list, it is possible that it cannot be operated. Not all functions on the RC3 are available for this equipment.

Switching over the remote control – with code input – e.g. to the Loewe DVD player

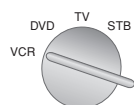
Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.

Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the **END** and *** EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the four numbers from the code list one after the other (0539 for Loewe DVD player). The display flashes once after each number is entered. Twice after the last number.

If the number was incorrect, the display flashes for longer. The code number has not been accepted.



END * EPG

0 AV

5 jkl

3 def

9 wxyz

Once the code has been accepted with two flashes, you can test the functionality of the device you have just programmed.

If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified for this manufacturer, try a code suggested by the remote control.

Switching over the remote control – with the suggestions by the remote control (see page 37-43)

Switch on the device to which you want to set the remote control. Standby is not sufficient!

Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the **END** and *** EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

9 wxyz

9 wxyz

1

PIP

Hold the remote control pointed towards the device you want to switch over to. Watch the device.

▶ ⏻

Now press the **▶** (Play) or **⏻** (On/Off) button on the remote control. Wait a moment for the reaction of the device. If the device does not react, the code is incorrect.

PIP

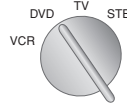
Press the **▶** (Play) or **⏻** (On/Off) button again.

* EPG

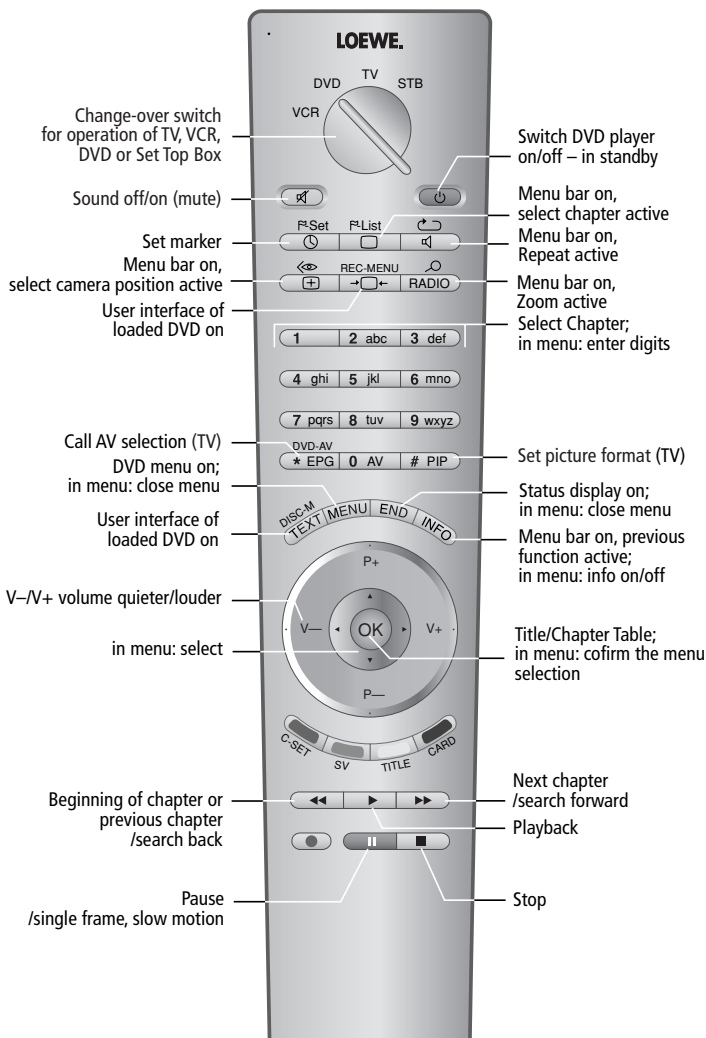
If the device reacts, press the *** EPG** button to confirm the code.

Operating additional equipment

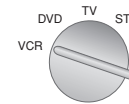
Remote control RC3 for operating a DVD recorder or DVD player



Set the rotary switch to "DVD".

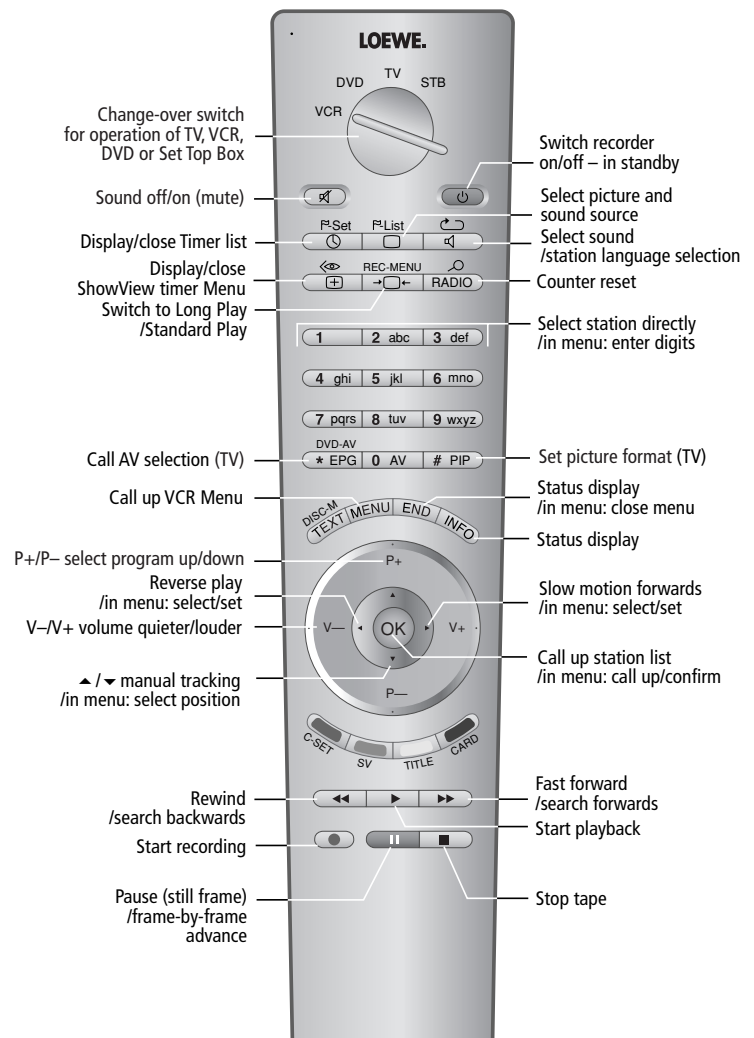


Using the RC3 remote control for operating a video recorder



Set the rotary switch to "VCR".

The infrared code and the functional scope for a Loewe VCR is set ex-factory.



Operating additional equipment

Rotating the TV set

(only when equipped with "Motor Unit")
If the TV set is mounted on a "Motor Unit" you can rotate it with the remote control to suit your sitting position.

Launch the TV menu:



Press **MENU** on the remote control.



Select the "Rotate TV" bar.



You determine the direction of rotation right, stop or left with the arrows on the button.



Close the menu.

Note:

Do not place any objects in the range of rotation of the TV set which could obstruct rotation or be knocked over in the process. Before activating the rotary function, make sure that the set can rotate freely and unhindered.

Viewing angle, range of rotation

Setting the rotation area (a maximum of +/- 40 degrees)

With this menu, you can determine the maximum rotation to the left and right.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



Select line "Basic adjustment".



Press the **OK** button.



You set the desired maximum range of rotation to the right by pressing the ring (right). Rotation stops when you release the ring.



The setting is saved by pressing **OK**.



Then set the desired maximum rotation to the left by pressing the ring (left).



Confirm with **OK**.



Press **END** to exit the menu.

Determining the switch off position

Here you determine the position of the screen (TV set) which is adopted when switching off providing you have activated this function.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



The menu "Rotate TV" appears. Select Define "Switch-off position".



You set the desired switch off position to the right or left by pressing the ring.



Rotation stops when you release the button.

Save the "set switch-off position" with **OK**.

Connecting Loewe sound systems

Function switch off position on/ off

You determine whether the TV set moves back to the determined switch off position when switched off with the remote control (the set cannot be operated during this time, approx. 35 seconds).



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



If you select "**yes**" in the line "Activate switch off position" the TV set will turn to the set position when switching off with the remote control. The TV does not rotate when switching off if "**no**" is selected under "Activate switch off position". The TV set stays at the last set position when it is switched off.



Press **END** to exit the menu.

Loewe Audio systems and active speaker systems

- Concertos 1
- Concertos 2
- Certos with Concertos
- Tremo and Dolby Digital Decoder

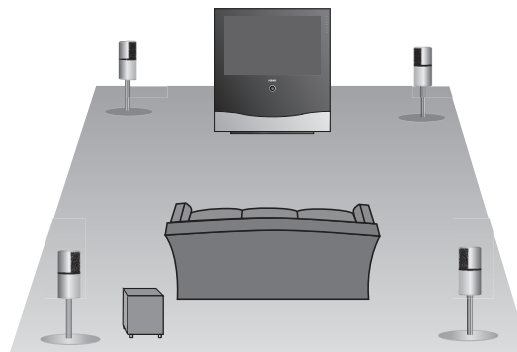
In connection with a Loewe TV with a Loewe audio system and a Loewe speaker system you have an excellently tuned Home Cinema system. Advantages are high operating comfort, attractive design and adapted technology.

The speakers and the TV set can be arranged as illustrated below, for example.

The arrangement of the speakers and the television set might look as depicted below. However, the layout of the front and surround speakers should be set up in symmetry to the television set and your sitting position.

The surround speakers can also be set up behind your sitting position, facing towards the front speakers.

The Acoustimass® module can also be set up in another place, e.g. particularly effective behind your sitting position, but in such a way that the bass frequencies are able to radiate freely.



The Concertos sound system offers you a new type of sound dimension in music and film performances with integrated electronics. Even at low volumes, you can then hear the full bass in the correct ratio to the higher and medium frequencies.

Loewe offers two sound systems **Concertos 1** and **Concertos 2**, consisting of an Acoustimass® Module, a set of cables and the satellite speakers.

If the integrated speakers of the TV set are not to be used for the center channel, then

Concertos 1 with five Loewe satellite speakers can be connected.

Use the integrated speakers of the TV as a center channel, then use **Concertos 2** with only four satellite speakers.

Connecting Concertos components:

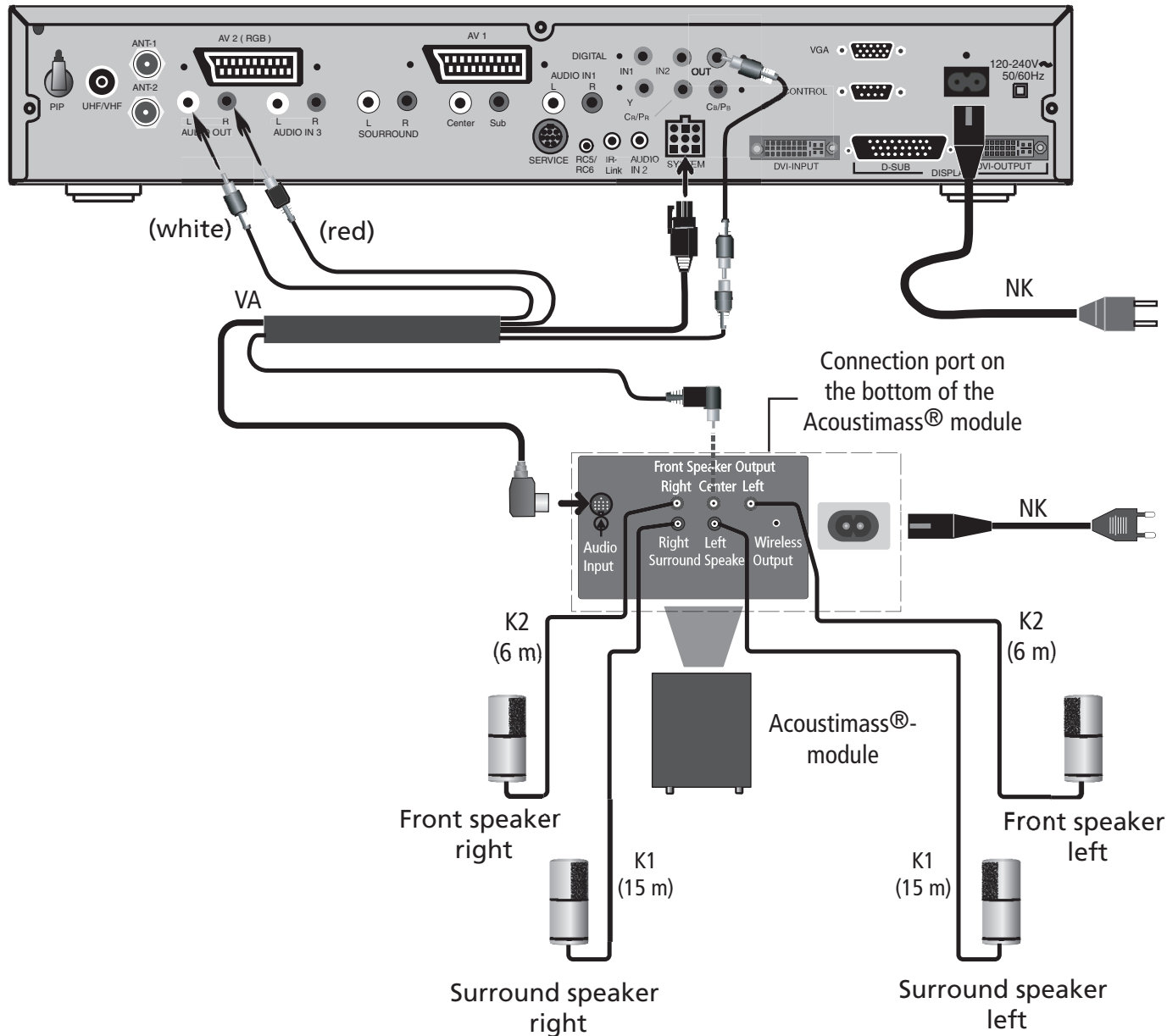
Before connecting the devices, ensure that they are switched off or pull out the mains plug. Connect the components of the Concertos system to the TV set, as shown on page 28.

First use:

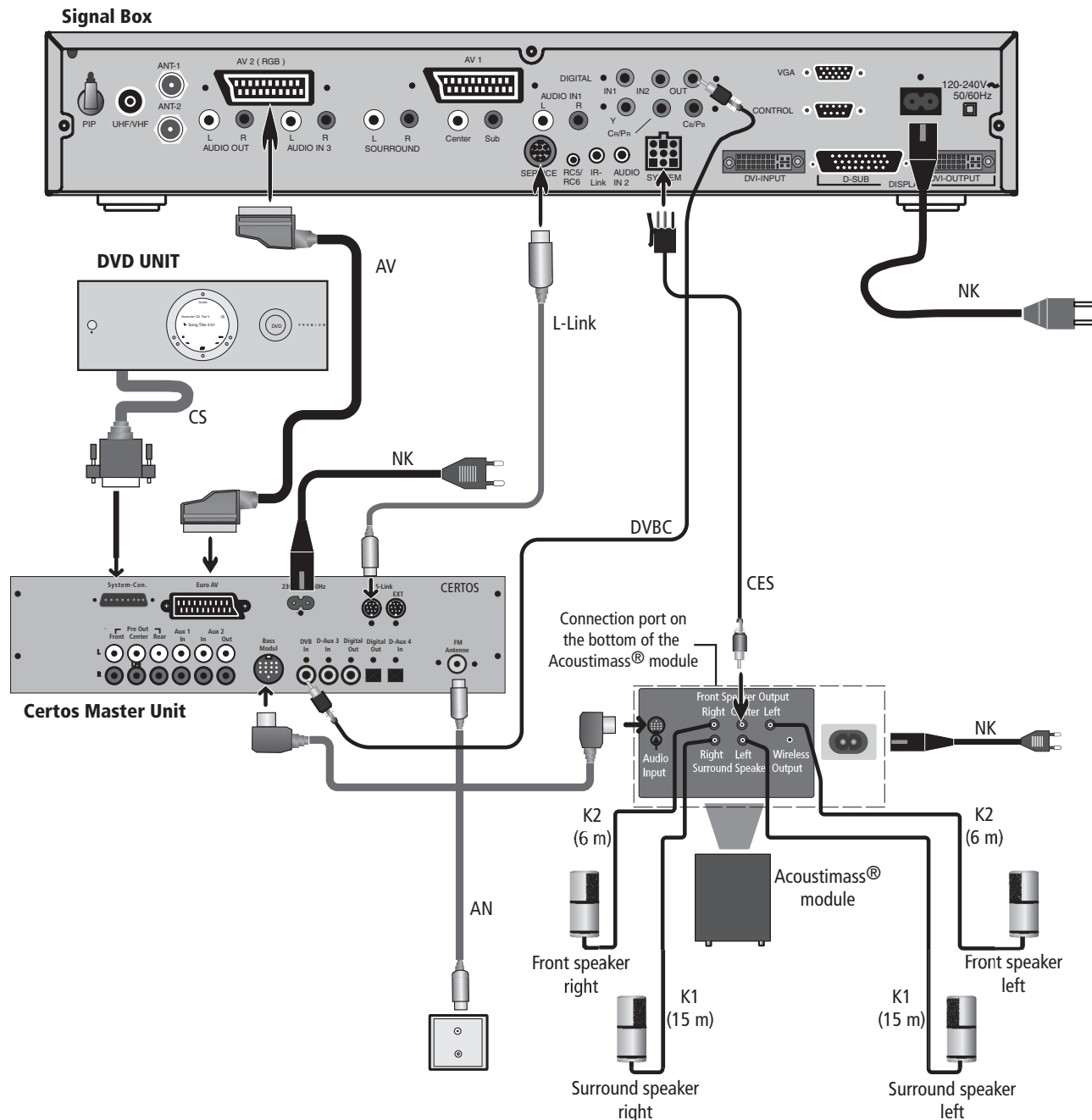
To put Spheros into use with the Concertos system, some settings from the Sound menu of Spheros are required. In this context, please read the separate Operating Instructions "Concertos 1 / 2 – Sound".

Loewe sound systems Concertos

Signal Box



Loewe sound systems Certos/Concertos



Connecting the DVD Preceiver Auro 8116 DT and Tremo

Connecting the Loewe DVD Preceiver Auro 8116 DT to the Signal Box

When you use the Loewe DVD Preceiver in connection with a Loewe TV set, connect the Tremo loudspeaker system to the audio outputs of the DVD Preceiver.

Connect the cubic socket on the DVD Preceiver to the "Master" cubic socket on the Tremo subwoofer. Use the cubic plug cable enclosed with the DVD Preceiver Auro (2-wire cable). Plug the white plug (without kink protection) in the cubic socket on the subwoofer.

If the loudspeakers of the Loewe TV set are used for center reproduction, connect the cubic socket of the TV set to the "Slave" cubic socket on the subwoofer with the cubic plug cable. Use the cubic plug cable enclosed with the Tremo loudspeaker system. Plug the white plug (without kink protection) into the cubic socket on the subwoofer. Set the switch "Center to" on the subwoofer to "TV".

If on the other hand you want to use the external center loudspeaker, do not connect Slave to the TV.

Set the "Center to" switch on the subwoofer to "Sat".

Connect the TV set (Euro AV socket 2) and the DVD Preceiver with the Euro-AV cable.

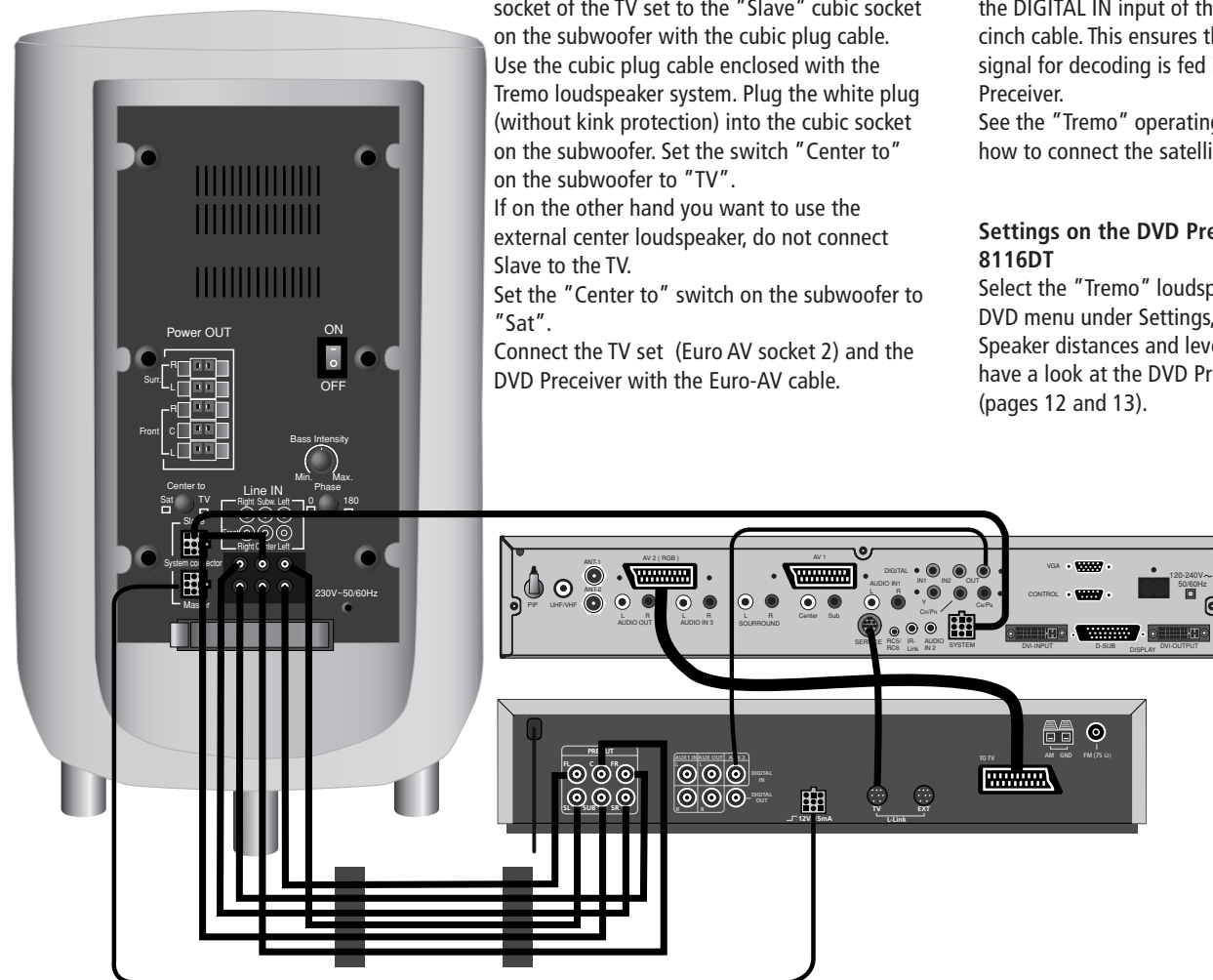
Connect the TV set (Service socket) to the TV-L-Link socket of the DVD Preceiver with the L-Link cable (delivered with the DVD Preceiver). This ensures that the Tremo loudspeaker system is switched on during radio or CD playback from the DVD Preceiver but the TV remains switched off.

Connect the digital output of the TV set with the DIGITAL IN input of the Auro system with a cinch cable. This ensures that the digital audio signal for decoding is fed into the DVD Preceiver.

See the "Tremo" operating manual to find out how to connect the satellite loudspeaker.

Settings on the DVD Preceiver Auro 8116DT

Select the "Tremo" loudspeaker system in the DVD menu under Settings, set the Listener/ Speaker distances and level the speakers. Also have a look at the DVD Preceiver manual (pages 12 and 13).



Displaying PC images (VGA/DVI)

Your Spheros has a digital visual interface (DVI) with which you can show PC images on the TV screen for example.

Connecting personal computers

Connect the PC directly to the socket labeled "DVI" on the back of the Signal Box. The digital audio signal can be connected to the input "Digital In 1 or 2". If your PC does not have a DVI interface, please use a VGA/DVI adapter cable. This is available from electronics and computer dealers. Connect the analogue audio output of the PC to the "AUDIO IN 2" socket. The TV set can be connected to the following standards: VGA (640x480 @85Hz), XGA (1024x768 @85Hz), SVGA (800x600 @85Hz) or SXGA (1280x1024 @75Hz).

DDC Function (Display Data Channel)

The DDC function automatically detects graphic resolutions supported by the TV set. If you wish to use the DDC function, first connect the PC to the TV set via the VGA or DVI socket. Boot the PC. Regardless of whether the TV set is on or off, you can select the graphic resolution (e.g. XGA 1024 x 768 at 75 Hz) in the "Properties" menu on the PC.

Launch the program for displaying PC images



Press the (Zero) key and "AV Selection" appears.



Choose "VGA"/"XGA"

PC image settings

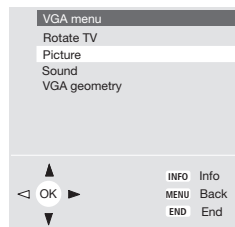
If a PC image is displayed on the screen, you can call up the "VGA menu".



Call up the VGA menu and...



Highlight the "Picture" line



Confirm

In the "Image" menu, you can select the contrast, brightness, sharpness, picture format, colour standard (not with DVI) etc. and adjust the light ratios to your personal preferences. To display pictures, you can select the format 4:3, since most camera pictures are taken in this format.

For an optimum display and maximum picture focus of standards VGA and SVGA, you can select "Original" under "Picture format". In this case the exact format values of the graphic card must be known and set in the menu "VGA geometry".

In the "Sound" menu, you can set the volume of the loudspeakers or headphones, or select the tone for two-tone playback.

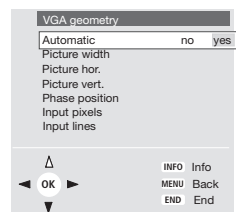
VGA geometry settings



In the VGA menu, select the line "VGA Geometry"



Launch



The setting options are restricted in "DVI".



Select "Automatic yes" on a computer with a conventional graphics format.



Your Spheros will automatically adjust to the supplied image format.

Special graphic format may require further settings to be made:

- Set the picture width
- Move the picture horizontally, to the left or right
- Move the picture vertically, upwards or downwards
- Set the phase position to give a picture that is as jitter-free as possible
- "Input pixels" allows you to set the horizontal resolution of the PC image.
- "Input lines" allows you to set the vertical resolution of the PC image.



Save settings



Pressing the **END** key on the remote control hides the menu.

Selection possibilities for the "COMPONENT IN" socket: Choose the menu "Connections" and set it as follows: Connections: Connection plan → Device selection → others → Device to COMPONENT IN socket **yes**. After pressing **OK** several times, you get the menu "Connections" with the following selection possibilities:

- Automatic, it is detected automatically which signal SDTV or HDTV/Pro scan is applied at the "COMPONENT IN" socket.
- SDTV for PAL with 625 lines, 50 Hz interlaced or NTSC 525 lines, 60 Hz interlaced
- HDTV for high definition video signals
- Pro scan for 625 lines/50 Hz or 525 lines/60 Hz progressive.
- With **OK**, you finally get the menu "Connections: Assign Audio Digital".

What to do when ...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified operation" activated in the main information.	Deactivate "Simple control" in the Main Information, press the i-key, select "Select control level" and call up with OK . Set "Simple control" to "no".
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu - Connections.
"Connections" for example cannot be called in the video menu (grayed out)	a) A timer recording is in progress (not with serial timer recording) b) You are recording from the TV set with the video bar	a) Wait until the timer recording has ended or clear the timer. b) Stop recording.
In the TV menu, the menu item "Programs" is missing and in the Main Information the item "Automatic channel search" and connections	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu - Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR's Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the "Connections" menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	a) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary. b) Set the correct norm. c) Set the correct AV signal. If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.

What to do when ...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	<ul style="list-style-type: none"> a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu - Connections b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu - Connections 	<ul style="list-style-type: none"> a) Follow the instructions in the TV menu - Connections again and select the appropriate decoder programs. b) Follow the instructions in the TV menu - Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder.
No sound through the TV loudspeakers	The item "Sound from..." in the Sound menu under "Sound" is not set to "TV"	Change the setting to "TV".
All menus appear in the wrong language	The wrong menu language has been set.	Set your menu language: 1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (END button) 2. Call the TV menu (MENU button) 3. Select the last menu item and press OK 4. Select the last menu item on the last page and press the OK button 5. Now select the right language and.... 6. ... confirm with OK .
Digital Link Plus does not work	<ul style="list-style-type: none"> a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket b) The Euro-AV cable is not fully wired (Pin 10 not wired) c) Some video recorders can only take over the stations from the TV in initial installation d) All or some terrestrial or cable stations are stored at station slots ≥ 99 	<ul style="list-style-type: none"> a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram. b) Change the Euro-AV cable c) Reinstall the original state (ex-factory) of the VCR (see operating instructions of the VCR) d) Sort the terrestrial and cable stations so that they are between 1 and 99.
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu - Settings - Character set - Standard or the appropriate character set.

Technical data

Type	Spheros R37 Masterpiece
Article no.	64437
Dimensions (cm) LCD display W x H x D	99 x 68 x 13,5
Display technology	TFT-LCD
Image format	16:9
Image diagonal	94 cm
Pixel format	1366 x 768
Contrast ratio	800:1
Viewing angle	
horizontal./vertical	170 °
Power consumption (Watt)	170

Relative atmospheric humidity	35 ... 75% no condensation	Sound norms	mono/stereo/2-sound Nicom B/G, L, I	Video OUT	Y/C (SVHS / Hi 8) (Only for S-VHS Link Plus)
Ambient temperature	0° – 40° Celsius	Multi channel (optional)	Dolby Digital/PCM/ MPEG	Audio IN/OUT	CVBS (VHS / 8 mm) L / R
Dimensions without foot (cm)				Component IN:	
W x H x D	99,3 x 107 x 13,5	Rated audio power	2 x 15 Watt / 4 Ohm	Cinch	Y signal
Weight (kg)	65	Audio music output	2 x 40 Watt / 4 Ohm	Cinch	Cr/Pr signal
Signal Box (with PhotoViewer and Digital Recorder)		Speakers	2 closed boxes	Cinch	Cb/Pb signal
Protection class	2	Tweeter	2 x 50 mm		
Chassis name	S 2550	Bass	2 x 105 mm		
Dimensions (cm)	43 x 10.5 x 37 (W x H x D)	Connections (Signal Box - front):		2xCinch L / R	AUDIO OUT
Power supply	120 V to 240 V / 50-60Hz	Mini-DIN	S-Video IN (AVS) S-VHS / Hi 8	2xCinch L / R	AUDIO IN 1
Power consumption		Cinch	Video IN (AVS) VHS / 8 mm	Jack socket 3.5 mm	AUDIO IN 2
* In operation up to	30-65 Watt	Cinch	Audio IN L / R	2xCinch L / R	AUDIO IN 3
Standby < 3 Watt		Jack 6.3 mm	headphones 32-200 Ohm	Cinch input socket IN 1	Digital sound
				Cinch input socket IN 2	Digital sound
				Cinch output socket OUT	Digital sound
				SYSTEM-Bush, 9 poles	AUDIO
Full Digital	AMD / DNC adjustable	Connections (Signal Box - rear):		Infrared link	Jack socket 3.5 mm
Tuner VHF/UHF/ cable		IEC socket 75 Ohm	Antenna / cable / PIP	RC5/RC6	Jack socket 2.5 mm
(Hyper band 8 MHz)	42 MHz to 860 MHz	* ANT 1 / 2	socket F 75 Ohm	Service-socket	8-pin
Station slot memory	220	EURO-AV 1:		Connection DVI/VGA input	26-pin Sub-D
with Digital TV * *	1470	Video IN	Y/C (S-VHS / Hi 8) (VHS / 8 mm)	VGA-Loewe Online input	15-pin Sub-D
TV standards	PAL-B/G, PAL-D/K, PAL-I, PAL-L PAL M/N, PAL 60 Secam B/G, D/K, L NTSC / NTSCV	Video OUT	Y/C (S-VHS / Hi 8) CVBS (VHS / 8 mm)	CONTROL Online Plus	9-pin Sub-D
Teletext	Hi-Text (Level 2.5)	Audio	IN/OUT L / R	Connection LCD display	26-pin Sub-D
		EURO-AV 2:		Connection LCD display	DVI OUTPUT
		Video IN	Y/C (SVHS / Hi 8) CVBS (VHS / 8 mm) RGB		

* Depending on the type of set.
** Only in the set version with „Digital-TV kit
2 Sat/Twin-Sat CI“.

Available accessories

Upgrade kits

Dolby Digital (AC3)

For decoding audio signals from the DVD player, TV set or other audio equipment to a 5.1 playback with active speakers.

Wireless Home Automation

For controlling the house lighting circuit, shutters etc.

Accessories

Online Plus Box

Separate Online Plus Box for comfortable use of Internet, e-mail, etc. on the TV.

Sound-System Concertos Concertos 2

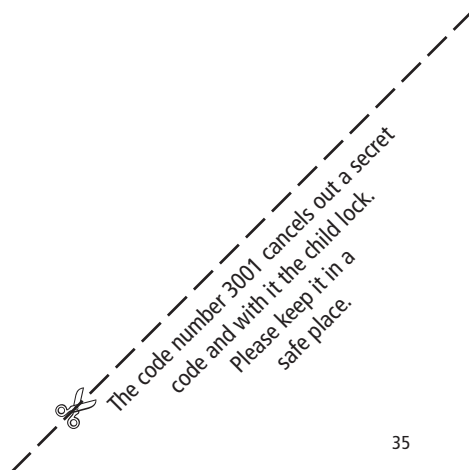
Exclusive 5.1 Digital-Surround Sound System. The center channel is reproduced by the integrated loudspeakers of the Spheros.

Certos

DVD/CD player with radio and Dolby Digital/dts-decoder in unusual design.

Loewe audio systems (Auro and Tremo) and active loudspeaker systems

A combination of a Loewe TV set, a Loewe audio system and a Loewe loudspeaker system provides an excellently adapted Home Cinema system with the advantages of high operating comfort, matching design and adapted technology.



Service Adressen/addresses/adresses/indirizzi/direcciones/adresy

Australia

International Dynamics Australasia Pty Ltd.
129 Palmer Street
AUS - Richmond, Victoria 3121
Tel. 03-94 29 08 22
Fax 03-94 29 08 33

Benelux

Loewe Opta Benelux NV/SA
Uilenbaan 84
B-2160 Antwerpen
Tel. 0902-88 00 2
Tel. 03-270 99 30
Fax 03-271 01 08
Loewe Opta Nederland B.V.
Ravenswade, 54A1
NL-3439 LD Nieuwegein (Utrecht)
Tel. 0900-20 20 180
Fax 030-280 33 27

Danmark

Kjaerulff 1 Development A/S
Vestre Stationsvej 9
DK-5000 Odense C
Danmark
Tel. 0661-354 80
Fax 0661-354 10

Deutschland

Loewe Opta GmbH
Customer Care Center
Industriestraße 11
D-96317 Kronach
Tel. 01801-22256393
Fax 09261-99500

France

Loewe France S.A.
11 rue de la Durance
F-67100 Strasbourg Cédex 1
Tel. 03-88 79 72 50
Fax 03-88 79 72 59

Griechenland

SOUND HELLAS S.A.
Kleanthous Str. 10
GR-54642 Thessaloniki
Tel. 2310-856 100
Fax 2310-856 300

Great Britain

Linn Sight Ltd.
PO Box 8465
Prestwick
UK - KA 7 2YF
Tel. 01292-47 15 52
Fax 01292-47 15 54

GUS

Service Center Loewe
ul. Verkhnyaya Maslovka, d. 29
RUS-125083 Moscow
Tel. 095-212 50 43, 956 67 64
Fax 095-212 47 10

Israel

RIF TRADING LTD
29 Izhak Sade Street
ISR-Tel Aviv 67213
Tel. 03-62 40 555
Fax 03-62 40 303

Italia

Loewe Italiana srl
Lago del Perlar, 12
I-37135 Verona
Tel. 045-82 51 611
Fax 055-82 51 622

Malta

Mirage Holdings Ltd
Flamingo Complex
Cannon Road
M-Qormi
Tel. 22 79 40 00
Fax 21 44 59 83

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SOMARA S.A.
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Codelist

Loewe									
DVD-Player						0539			
DVD-Recorder						0741			
STB						1127			
VCR						0866			
DVD									
3DLAB						0539			
A-Trend						0714			
Acoustic Solutions						0730			
AEG					0788	0770			
Aiwa					0641	0695			
Akai	0790	0788	0690	0716	0713	0705			
AKI						0718			
Akira						0699			
Alba	0717	0699	0713	0723		0695			
All-Tel						0790			
Amitech						0770			
Amstrad						0713			
Apex Digital						0672			
Audiosonic						0690			
AWA						0730			
Black Diamond						0713			
Blaupunkt						0717			
Blue Sky	0699	0695	0713	0672		0651			
Boman						0783			
Brain Wave						0770			
Brandt						0651	0551		
Bush	0699	0690	0689	0717	0713	0818			
				0695	0831	0723			
C-Tech						0768			
Cambridge Audio						0696			
Cambridge Soundworks						0696			
CAT						0699			
Celestial						0672	1004		
Centrex				0672					
Centrum						0713			
cineULTRA						0699			
Classic						0730			
Clatronic						0788			
Clayton						0713			
Coby						0730			
Conia						0672			
Crown		0770	0651			0690			
Cybercom						0831			
CyberHome					0714	0816			
Cytron		0716	0651			0705			
Daewoo									
Daewoo International									
Dansai									
Dantax									
DEC									
Decca									
Denon									
Denver									
Denzel									
Diamond									
Digihome									
digiRED									
Digitrex									
DiK									
Dinamic									
DiViDo									
DK digital									
DMTECH									
Dragon									
Dual	0665	0651	0713	0730	0783	0790			
						0831			
E-Boda									
Eclipse									
Electrohome									
Elin									
Elta	0690	0770	0788			0790			
Emerson									
Enzer									
Ferguson									
Finlux									
Firstline									
Funai									
GE									
Global Solutions									
Global Sphere									
Go Video									
GoldStar									
Goodmans	0651	1004	0790	0690	0783	0818			
Graetz									
Grandin									
Grundig	0539	0695	0651	0775	0705	0790			
Grunkel									
H&B									
Haaz									
Hanseatic									
HCM									
HDT									
HE									
Henß									
Hitachi									
Hiteker									
Home Electronics									
Hyundai									
Ingelen									
ISP									
Jeken									
JMB									
JVC									
Karcher									
Kendo									
Kenwood									
Kihiro									
Kingavon									
Kiss									
Koda									
Koss									
Lawson									
Lecson									
Lenco									
Lenoxx									
Lexia									
LG									
Lifetec									
Limit									
Loewe									
LogicLab									
Logix									
Lumatron									
Luxman									
Luxor									
Magnavox									
Magnex									
Manhattan									
Marantz									
Mark									
Matsui									
MBO									
MDS									
Medion									
Memorex									
Metz									
MiCO									

Microboss					0718	Rotel					0623	Tokai			0665	0788
Micromaxx					0695	Rowa					1004	Tokiwa			0705	0716
Micromedia				0503	0539	Saba					0651	Toshiba				0503
Micromega					0539	Sabaki					0768	Umax				0690
Microsoft					0522	Salora					0741	United			0788	0730
Microstar					0831	Samsung				0573	0490	Universum			0741	0713
Minax					0713	Sansui		0695	0716	0768	0723	0770	Venturer			0790
Minoka					0770	Sanyo				0670	0695	0790	Vieta			0705
Mitsubishi					0713	Scan						0705	Voxson		0730	0831
Mizuda					0818	ScanMagic						0730	Walkvision			0717
Monyka					0665	Schaub Lorenz					0788	0770	Welkin			0831
Mustek					0730	Schneider		0651	0783	0705	0790	0788	Wesder			0699
Mx Onda				0651	0723	Scientific Labs						0768	Wharfedale		0696	0723
NAD					0741	Scott				0718	0651	0672	Windy Sam			0573
Naiko					0770	SEG				0665	0713	0768	XBox			0522
Neufunk					0665	Shanghai						0672	XLogic		0770	0768
Nordmende					0831	Sharp					0630	0695	XMS		0788	0689
Omni				0690	0699	Sherwood				0717	0741	0633	Yamada			1004
Onkyo				0627	0503	Shinco						0717	Yamaha		0490	0539
Optimus					0571	Silva						0788	Yamakawa		0665	0710
Orava					0818	SilvaSchneider						0831	Yelo			0718
Orion					0695	Singer				0690	0716	0723	Yukai			0730
Oritron					0651	Skymaster					0730	0768	Zenith		0503	0591
P&B					0818	Slim Art						0770				0741
Pacific		0768	0790	0713	0831	SM Electronic				0730	0768	0690				
Palladium					0695	Smart				0718	0705	0713				
Palsonic					0689	Sonashi						0716				
Panasonic					0490	Sony			0533	0573	1903	1904				
Panda					0783	Soundmaster						0768				
Philips		0539	0646	0503	1914	Soundmax						0768				
Phonotrend					0699	Soundwave						0783				
Pioneer		0571	0631	1900	1902	Standard				0651	0768					
Pointer					0770	Starmedia						0818				
Powerpoint					0718	Sunwood						0788				
Proline		0651	0672	0790	1004	Supervision					0730	0768				
Proscan					0522	SVA						0672				
Prosonic					0699	Synn						0768				
Provision					0699	Tandberg						0713				
Radionette					0741	Tatung						0770				
Raite					0665	Teac		0717	0741	0571	0768	0591	0790			
Rank Arena					0718	Technics						0490	1908			
RCA			0522	0651		Technika						0770				
REC			0689	0490		Techwood						0713				
Red Star			0770	0788		Tensai					0690	0651				
Reoc					0768	Tevion					0651	0768				
Revoy					0699	Theta Digital						0571				
Roadstar	0699	0690	0689	0713	0818	Thomson					0551	0522				

VCR																			
Adyson									0072	Dansai						0072	0278	Hanseatic	0037 0209 0278 0081 0038
Aiwa	0307	0000	0209	0348	0352	0037				Daytron						0278		Harwood	0072
						0041				de Graaf		0042	0081	0104	0048			HCM	0072
Akai	0106	0315	0041	0352		0240				Decca	0000 0041	0081	0067	0348	0209			Hinari	0072 0209 0352 0041 0278 0240
Akashi						0072				Deitron					0278			Hisawa	0209 0352
Akiba						0072				Denko					0072			Hischito	0045
Akura						0072 0041				Diamant					0037			Hitachi	0042 0041 0000 0240 0081 0104
Alba	0278	0072	0209	0352	0000	0315				Domland					0209				0384
						0348 0081				Dual		0041	0081	0278	0000			Hornophone	0081
Allorgan						0240				Dumont		0000	0081	0104				Hypson	0072 0209 0278 0352
Allstar						0081				Elbe				0278 0038				Imperial	0000 0240
Amstrad			0000	0278		0072				Elcatech					0072			Ingersoll	0209 0240
Anitech						0072				Elin					0240			Inno Hit	0240 0278 0072
Ansonic						0000				Elsay					0072			Interbuy	0037 0072
Aristona						0081				Elta				0072	0278			Interfunk	0081 0104
ASA						0037 0081				Emerson		0072	0045	0000				Internal	0278
Asuka	0072	0037	0081	0000	0038					ESC				0278 0240				International	0278 0037
Audiosonic						0278				Etzuko					0072			Intervision	0000 0278 0037 0209 0348
AVP						0352 0000				Fast					0897			Irradio	0072 0037 0081
AWA		0037	0278	0642	0043					Ferguson		0041	0320	0000	0278			ITT	0106 0041 0384 0104 0240
Baird	0106	0278	0104	0041	0000					Fidelity			0000	0072	0240			ITT Nokia	0048
Basic Line			0278	0209		0072				Finlandia	0104 0081	0042	0000	0048	0384			ITV	0278 0037
Bestar						0278				Finlux		0000	0081	0104	0042			JMB	0209 0352
Black Diamond						0642 0278				Firstline	0072 0209 0348	0043	0037	0045				Joyce	0000
Black Panther						0278								0042 0278				JVC	0041 0067 0384
Blaupunkt			1562	0226	0081					Fisher		0047	0104	0038				Kaisui	0072
Blue Sky	0037	0209	0348	0072	0352	0278				Flint					0209			Kambrook	0037
						0000				Frontech					0072			Karcher	0278
Bondstec						0072				Fujitsu					0000			Kendo	0106 0209 0315 0348 0072 0037
Brandt						0041 0320				Funai					0000			Kenwood	0041 0038
Brandt Electronique						0041				Galaxi					0000			KIC	0000
Brinkmann						0209 0348				Galaxis					0278			Kimari	0047
Bush	0072	0278	0315	0209	0352	0000				GE					0320			Kneissel	0352 0209 0348 0037
						0348 0081				GEC					0081			Kolster	0209 0348
Carena						0209 0081				General Technic					0348			Korpel	0072
Carrefour						0045				Genexxa					0104			Kuba	0047
Casio						0000				Goldhand					0072			Kuba Electronic	0047
Cathay						0278				GoldStar				0037 0000				Kuwa	0226
CGE						0041 0000				Goodmans	0000 0072	0240	0278	0037				Kyoto	0072
Cimline						0072 0209						0081	0348	0209	0352	0642		Lenco	0278
Clatronic						0072 0000				Graetz			0041	0104	0240			Leyco	0072
Combitech						0352				Granada	0104 0048	0081	0240	0037	0226			LG	0037 0000 0278
Condor						0278									0042 0000			Lifetec	0209 0348
Crown						0278 0072				Grandin		0072	0037	0000	0278	0209		Loewe	0081 1562 0226 0866 0037
Cyrus						0081				Grundig	0081 0347	0226	0320	0348	0072			Logik	0240 0072 0106 0209
Daewoo	0278	0642	0209	0348	0352	0045				Haaz				0348	0209			Lumatron	0278
										Hanimex					0352			Luxor	0106 0043 0072 0104 0047 0048

Magnavox					0081	Philips		0081	0384	Silva					0037
Manesth		0072	0045	0081	0209	Phoenix			0278	Silver					0278
Marantz			0081	0038	0209	Phonola			0081	Singer					0045
Mark					0278	Pioneer		0067	0081	0042	Sinudyne		0081	0209	
Matsui	0209	0348	0037	0240	0352	0000	Portland			0278	Smaragd				0348
Mediator					0081	Prinz			0000	Sonitron					0047
Medion			0209	0348	0352	Profitronic			0081	0240	Sonneclair				0072
Melectronic				0000	0037	0038	Proline		0000	0320	Sonoko				0278
Memorex		0104	0000	0037	0048	0047	Proscro			0278	Sonolor				0048
Memphis					0072	Prosonic		0209	0278	0000	Sontec		0037	0278	
Metz		1562	0347	0081	0226	0037	Protech			0081	Sony			0032	0106
Micormay					0348	Provision			0278	Soundwave		0037	0209	0348	
Micromaxx					0209	Pye			0081	Ssangyong					0072
Migros					0000	Quasar			0278	Standard					0278
Mitsubishi			0043	0067	0081	Quelle			0081	Starlite		0037	0104		
Multitec					0037	Radialva		0037	0072	0081	0048	Stern			0278
Multitech			0000	0072	0104	Radiola				0081	Sunkai		0209	0348	0278
Murphy					0000	Rank				0041	Sunstar				0000
Myryad					0081	Reoc		0209	0348	0278	Suntronic				0000
NAD					0104	Rex			0041	0384	Sunwood				0072
National					1562	0226	RFT			0072	Supra		0037	0240	
NEC		0041	0038	0067	0104	0037	Roadstar		0240	0072	0037	0278	Symphonic		0000
Neckermann					0041	0081	Royal			0072	T+A				0226
Nesco			0072	0000	0352	Saba		0041	0320	0384	0278	Taisho			0209
Neufunk					0209	Saisho				0209	0348	Tandberg			0278
Nikkai				0072	0278	Salora		0043	0106	0104	Tashiko		0000	0048	0240
Nokia	0104	0106	0315	0041	0278	0240	Samsung			0240	0432	Tatung	0000	0041	0081
				0048	0042	0081	Sansui		0041	0067	0106	0072	0348	0352	
Nordmende		0041	0384	0320	0067	Sanyo		0104	0047	0048	0067	Teac	0072	0041	0000
NU-TEC				0209	0348	Saville			0352	0278	0240				0081
Oceanic	0000	0048	0106	0081	0104	0041	SBR			0081	TEC				0278
Okano		0315	0209	0348	0072	0278	Scan Sonic			0240	Tech Line				0072
Orbit					0072	Schaub Lorenz	0041	0104	0000	0106	0315	TechniSat			0348
Orion			0209	0352	0348	Schneider	0072	0000	0037	0081	0278	0240	Teleavia		0041
Orson					0000					0042	0897	Telefunken		0041	0320
Osaki			0000	0037	0072	Seaway				0278	0081	Teletech		0072	0278
Osume					0072	SEG		0072	0240	0278	0642	Tenosal			0072
Otake					0209	SEI				0081	0081	Tensai		0000	0037
Otto Versand					0081	Sei-Sinudyne				0081	Tevion				0348
Palladium		0072	0315	0037	0041	0209	Seleco		0041	0384	0037	Thomson		0320	0041
				0240	0348	0432	Sentra			0072	0072	Thorn			0041
Palsonic				0072	0000	Setron				0072	Thorn-Ferguson				0320
Panasonic				1562	0226	Sharp		0048	0037	0569	Tokai		0072	0037	0041
Pathe Cinema					0043	Shintom			0072	0104	Tokiwa				0072
Pathe Marconi					0041	Shivaki				0037	Topline				0348
Perdio				0000	0209	Siemens		0037	0104	0081	0320	0347	Toshiba	0045	0041
Philco				0038	0072	Siera				0081	Towada				0072

Tredex						0278	Athena					0668	Discovery				0668	0710		
Uher					0037	0240	Atlanta					0871	Diseqc					0710		
Ultravox						0278	Aurora					0879	Distratel			0084	0885	1205		
Unitech						0240	Austar	0863	0642	0497	0879	1176	Distrisat					0200		
United Quick Star						0278	Avalon					0396	DMT					1075		
Universum	0000	0081	0240	0037	0106	Axiel					0668	0710	DNT				0200	0396		
				0348	0209	0104	Axis				1111	0834	DREAM multimedia.TV					1237		
Victor						0067	Beko					0455	DStv				0642	0879		
Watson		0081	0352	0278	0642		Bentley Walker					1017	Echostar	0610	1169	0871	0167	0853	1086	
Weltblick					0037		Blaupunkt					0173		1200	0454	0396	0713	0668	0511	0453
Yamaha						0041	Blue Sky				0713	0885	Einhell				0132	0713	0501	
Yamishi				0072	0278		Boca				0132	0713	Elap			0713	1129	0668	0710	
Yokan					0072		Boston			0132	0710	0668	Elsat						0713	
Yoko		0037	0072		0240		Broco					0713	Elta						0200	
ZX					0209		BskyB				0847	1175	Emme Esse						0871	
							BT				0668	0710	Engel					1017	0713	
SAT (STB)							Bubu Sat					0713	EP Sat						0455	
@sat						1300	Cambridge					0501	Eurieult			0084	0885	0882		
ABsat		0668	0123	1323		0710	Canal Satellite					0853	Eurocrypt					0455		
ADB						0642	Canal+					0853	Europa			0863	0607	0501	0200	
Adcom						0200	Cherokee				0123	0710	1323	Europhon				0299	0607	
AGS					0668	0710	Chess			0157	0605	0713	1085	Eurosky	0607	0132	0299	0115	0114	0501
Akai						0200	CityCom			1176	0115	0607	0299	Eurostar				0607	0115	
Akena						0668	Clemens Kamphus					0834	0396	Fenner			0668	0157	0605	0713
Alba					0455	0713	Cobra					0396	Ferguson						0455	
Allsat		0200	1017		1043		Colombia				0668	0132	Fidelity						0501	
Alltech						0713	Columbia					0132	Finlandia						0455	
Alpha					0668	0200	Columbus					0668	Finlux					0573	0455	
Altai						0396	Comag					0132	Flair Mate						0713	
Amitronica						0713	Condor					0607	Force						1101	
Ampere					0396	0132	Connexions					0396	Fortec Star					1017	1083	
Amstrad	0847	0713	0742	0396	0132	0882	Conrad			0607	0573	0115	0501	Foxtel	0879	0720	0455	0497	0795	1176
		0885	0863	0501	0795	1113	Conrad Electronic					0607	0713	Fracarro					0871	0668
Anglo						0713	Cryptovision					0455	0795	Freecom					0501	0173
Ankaro						0713	Cyrus					0200	Freesat							0882
AntSat					1017	1083	D-box			1127	1114	0723	FTEmaximal						0713	0863
Apollo						0455	Daeryung					0396	Fuba			0396	0173	0573	0115	0299
Arcon		1205	1043	0834	0132	1075	Daewoo				1296	0713	Fugionkyo							1105
Armstrong						0200	Delfa					0863	Galaxis	1111	1101	0834	0863	1176	0853	
Asat						0200	Deltasat					1075	0115	0879						
ASLF						0713	DGTEC					1242	Garnet							1075
AssCom						0853	Digatron					1294	GF					0834	1043	
Astacom					0668	0710	Digenius					0299	GF Star						1043	
Aston						1129	Digitality					0607	GOD Digital						0200	
Astra					0607	0713	Digipro					1105	Goldbox						0853	
Astro	0133	0173	0501	0658	0607	1113	DigiQuest					0863	Goldvision						1017	
				1099	1100	0200	Discoverer				0605	0157	Gooding						0571	

Goodmans						1284	0455	Labgear								1296	OctalTV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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Samsung 0863 1243 1343 0853 1206 1017
 1293 1292
 SAT 0501
 Sat Control 1300
 Sat Partner 0501
 Sat Team 0713
 Satcom 0605 0607
 Satec 0713 0834
 Satline 0628
 Satstation 1083
 Schneider 0710 0668 0157 1206
 Schwaiger 0605 0157 0607 0885 1111
 0132 1075
 SCS 0115 0299
 Seemann 0396
 SEG 0605 0742 0114 1087
 Seleco 0871
 Septimo 1205 0885
 Siemens 0173
 Skantin 0713
 Skinsat 0501
 SKR 0713
 Sky 0847 0856 0887 1014
 SKY+ 1175
 Skymaster 0713 0605 0157 1200 1085 1075
 0628
 Skymax 0200
 SkySat 0157 0605 0713
 SL 0132 0742
 SM Electronic 0157 0713 1200 1075 1085
 Smart 0132 0299 1101 0882 0396 1113
 0115 0713
 Sony 0282 0847 0853 0455
 SR 0132
 Starland 0713
 Strong 0879 0853 1105 1159 1300
 Sunsat 0713
 Sunstar 0132
 Tantec 0455
 Tatung 0455
 Teac 1322
 Tecatel 1200
 TechniSat 0200 1099 1100 1195 0501 1322
 Technosat 1206
 Technowelt 0607 0885
 Techsan 1017
 Techwood 0114

Telasat 0605 0115 0607
 Teleciel 1043
 Telecom 0713
 Telefunken 0710
 Teleka 0396 0750 0501 0607 0834
 Telesat 0605 0607
 Telestar 0501 1099 1100 0114 0200 0157
 Teletech 0114
 Televes 0455 0501 0132
 Thomson 0455 0713 0853 0115 0607 1291
 0820 0668 0710 1046
 Thorn 0455
 Tokai 0200
 Tonna 0455 0668 0501 0713 0834
 Topfield 1206
 Toshiba 0455
 TPS 0820 1253
 Triasat 0501
 Triax 0501 0115 0200 0396 0713 0853
 0114 1296 1291 0132
 Turnsat 0713
 Twinner 0132 0713
 UEC 0879
 Uher 0157
 Unisat 0200
 Universum 0173 0571 0607 0299 0115
 0742 1087
 Van Hunen 0299
 Variosat 0173
 Ventana 0200
 Vestel 0742
 VH-Sat 0299
 Viasat 1323 1023 0820
 Visionic 1105
 Visiosat 0710 0713
 Wetekom 0157 0605 0501
 Wewa 0455
 Wisi 0173 0396 0299 0455 0501 0607
 0834
 Worldsat 0710 0114 0123 0668
 XCOM 0123 0668
 XSat 0668 0713 0123
 Xtreme 1300
 YES 0887
 Zehnder 1075 0742 0114 0115 0419
 Zenith 0856
 Zeta Technology 0200
 Zinwell 1176

Cable Box (STB)	
Austar	0276
BT	0003
Canal Plus	0443
Comcrypt	0443
Decsat	0423
Filmnet	0443
France Telecom	0817
General Instruments	0276
Jerrold	0003 0276
Kabelvision	0003
Macab	0817
Melita	0003
MNet	0443
Mr Zapp	0817
Noos	0817
NTL Cabletell	0276
Ono	1068
Optus	0276 1060
Pace	1068 1060
Philips	0817 0286
PVP Stereo Visual	0003
Sagem	0817
Tele+1	0443
Telepiu	0443
Tudi	0286
United Cable	0003
Visiopass	0817

